

4.1.1. The Institution has adequate physical facilities for teaching –learning, skills acquisition etc.

Teaching- learning and skills acquisition facilities in the Institution

Sno.	Name of Programme	Level	Name of Facility	Short Description
1	BDS	UG	Smart Board , Seminar rooms, lecture halls, Conventional Board, Conference room, Examination Hall Auditorium	The institution has the following physical facilities for teaching and learning: 2 <u>Smart Boards</u> : Used to teach with animation & 3D views. 5 <u>Classrooms</u> and 9 <u>Seminar halls</u> : used to share live demo of models with students. 1 <u>Conference Room</u> : Used to discuss conduct meetings and discussions/ research topics with faculty and students. 1 /Auditorium to conduct curricular activities 1 Examination Hall to conduct examinations
2	MDS	PG	Smart Board , Seminar rooms, lecture halls, Conventional Board , Conference room Examination Hall Auditorium	The institution has the following physical facilities for teaching and learning: 2 <u>Smart Boards</u> : Used to teach with animation & 3D views. 5 <u>Classrooms</u> and 9 <u>Seminar halls</u> : used to share live demo of models with students. 1 <u>Conference Room</u> : Used to discuss conduct meetings and discussions/ research topics with faculty and students. 1 /Auditorium to conduct curricular activities 1 Examination Hall to conduct examinations
3	DIPLOMA COURSE	DENTAL HYGIENIST	Seminar rooms, lecture halls, Conventional Board.	The department of prosthodontics of PCDS & RC has the following physical facilities for Diploma in Dental Hygienist:

4	DIPLOMA COURSE	DENTAL MECHANICS	Seminar rooms, Conventional Board	The department of prosthodontics of PCDS & RC has the following physical facilities for Diploma in Dental Mechanics: Casting facilities, metall and ceramic work facilities for the students
5	BDS Department of CONSERVATIVE DENTISTRY	UG	Phantom Lab -I, Phantom Lab -II, Laboratory	The department of conservative dentistry has the following facilities: <u>Phantom Lab -I:</u> (2610 Sq Ft.) <u>Phantom Lab -II:</u> (2610 Sq Ft.) <u>Laboratory</u> (900 Sq Ft.)
6	MDS Department of CONSERVATIVE DENTISTRY	PG	Phantom Lab -I, Phantom Lab -II, Laboratory	The department of conservative dentistry has the following facilities: <u>Phantom Lab -I:</u> (2610 Sq Ft.) <u>Phantom Lab -II:</u> (2610 Sq Ft.) <u>Laboratory</u> (900 Sq Ft.)
7	BDS Department of PROSTHODONTICS	UG	UG Laboratory, Pre clinical Laboratory, Dental Material, Ceramic Lab, Nickel chrome Lab, Technician Lab	The Department of Prosthodontics has the following facilities: UG Laboratory(300 Sq Ft.) Pre clinical Prosth Lab(2610 Sq Ft.) Dental Material(2610 Sq Ft.) Ceramic Lab(120 Sq Ft.) Nickel chrome Lab(120 Sq Ft.) and Technician Lab(900 Sq Ft.)
8	MDS Department of PROSTHODONTICS	PG	PG clinic & Phantom Lab PG Laboratory Ceramic Lab Nickel chrome Lab. Technician Lab.	The Department of Prosthodontics has the following facilities: PG clinic & Phantom Lab. (2700 Sq Ft.), PG Laboratory(300 Sq Ft.), Ceramic Lab(120 Sq Ft.), Nickel chrome Lab(120 Sq Ft.), Technician Lab(900 Sq Ft.)
9	BDS Department of ORTHODONTICS	UG	Laboratory Pre-clinical Lab	The Department of Orthodontia has the following facilities: Laboratory (480 Sq Ft.), Pre-clinical Lab(982 Sq Ft.)
10	MDS Department of ORTHODONTICS	PG	Pre clinical Prosth Lab	The Department of Orthodontia has the following facilities: Laboratory (480 Sq Ft.), Pre-clinical Lab(982 Sq Ft.)

11	<b>BDS Dept. of Pedodontia &amp; preventive dentistry</b>	<b>UG</b>	<b>Laboratory</b>	The Department of Pedodontia & preventive dentistry has the following facilities: Laboratory (200 Sq Ft.)
12	<b>MDS Dept. of Pedodontia &amp; preventive dentistry</b>	<b>PG</b>	<b>Fluoride Application Pit and Fissure Sealants Separate units for IOPA X-ray machine OPG machine (conventional and Digital) Dark room with safe light facility Daylight processor Nitrous Oxide Inhalation Sedation Space Maintainers</b>	The Department of Pedodontia & preventive dentistry has the following facilities: Caries preventive measures GIC restorations Amalgam Restoration, Composite restoration All treatment procedures can be done under nitrous oxide sedation
13	<b>BDS Dept. of ORAL MEDICINE and RADIOLOG Y</b>	<b>UG</b>	<b>Separate units for IOPA X-ray machine OPG machine (conventional and Digital) Dark room with safe light facility Daylight processor Nitrous Oxide Inhalation Sedation</b>	The Department of Oral medicine and Radiology has the following facilities: Separate units for IOPA for patients OPG machine for Extra-oral Radiography Dark room and Daylight processor for processing of IOPA
14	<b>MDS Dept. of ORAL MEDICINE and RADIOLOG Y</b>	<b>PG</b>	<b>IOPA X-ray machine OPG machine ALLENGER full body machine CBCT TENS machine Dark room with safe light facility</b>	The Department of Oral Medicine and Radiology has an area of 6480 Sq Ft with all latest radiographic and treatment facilities. Latest CBCT machine is installed for diagnosis of all oral and facial lesions. TENS machine for treatment of myofascial pain disorders is also available. OPG machine for extra oral radiography (both conventional and digital) is available. Seperate unit for IOPA is present for patients.

15	<b>BDS Dept of Periodontol ogy and Oral</b>	<b>UG</b>	<b>Ultrasonic scaler</b>	Used for supra gingival and subgingival scaling
16	<b>MDS Dept of Periodontol ogy and Oral Implantolog y</b>	<b>PG</b>	<b>RVG, Electrocautery Unit, Iontophoresis Unit Implant Surgical Kit Centrifuge Machine Intra oral camera Magnifying loops</b>	Used to determine the condition of periodontium in a easy way, and saves time. Used to cut and coagulate the tissues at surgical sites in various procedures, like operculectomy, frenectomy, gingivectomy Used in preparation of the PRF, PRP, and also sticky bone graft, for regeneration of the tissues. Used for accessing the clinically inaccessible areas and also used for patient education Used for a magnified vision, ease, and accuracy during periodontal surgeries and microsurgeries.
	<b>BDS DEPARTME NT OF ORAL AND MAXILLOFA</b>	<b>UG</b>	<b>1. STERILISATION ROOM. 2. UG CLINIC 3. SEMINAR ROOM</b>	the department whicv is spread over the area of 6853 sq ft. it includes sterilisation room with 35 sets of minor suregry instruments, autoclaves.
17	<b>MDS DEPARTME NT OF ORAL AND MAXILLOFA CIAL</b>	<b>PG.</b>	<b>1. PG CLINIC 2. MINOR OT 3. PG SEMINAR ROOM</b>	6853 Sq Ft area with a minot OT , PG clinic and PG seminar room
	<b>PCDS DEPARTME NT OF Public Health Dentistry</b>	<b>UG</b>	<b>Mobile Dental Unit, Museum, Tobacco Cessation Unit, Public Adress System for Health Education, Brushing Technique Demonstration Models</b>	The Public Health Dentistry department has following facilities: We have a museum, public address system, brushing technique demonstration models, posters for health education. We also have a mobile dental van to cater oral health education and dental care to outreach area.

	<b>PCDS DEPARTMENT OF Public Health Dentistry</b>	<b>PG.</b>	<b>Mobile Dental Unit, Museum, Tobacco Cessation Unit, Public Adress System for Health Education, Brushing Technique Demonstration Models</b>	The Public Health Dentistry department has following facilities: Postgraduate section has an infra structure 2950 sq.ft. We have a tobacco cessation unit with the area of 120 sq.ft. With a toll free Number for patients those who want to quit their habits. we have a mobile dental van to cater oral health education and dental care to outreach areas.
<b>22</b>	<b>PCDS</b>	<b>UG</b>	<b>Pathology Lab</b>	1200 Sq Ft.
<b>23</b>	<b>PCDS</b>	<b>UG Dept. of Pharmacology</b>	<b>Pharmacology Lab I Pharmacology Lab-II</b>	880 Sq Ft. 745 Sq Ft.
<b>25</b>	<b>PCDS</b>	<b>UG, PG</b>	<b>Computers Printers Scanner</b>	<b>Fax</b> The institution has the following physical facilities for teaching and learning: 74 Computers 01 Fax 19 Printers 6 Scanners

*Geotagged photographs of the facilities	
*Please Refer Page no. 189 & 201 in Health Science Manual for Geotagging Photographs.	
* Please mention Proper Name & Other Detail in Photographs.	
*LEVEL=UG/PG/PhD	
*Facility= for teaching –learning viz., classrooms, ICT-enabled classrooms, seminar halls, facilities for Clinical learning, learning in the community, AYUSH-related learning cum therapy center, well equipped laboratories, Skills labs etc. as stipulated by the appropriate Regulatory bodies.	

**4.1.1. The Institution has adequate physical facilities for teaching –learning, skills acquisition etc.**

**Teaching- learning and skills acquisition facilities in the Institution**

<b>Name of Program me</b>	<b>Level</b>	<b>Name of laboratory</b>	<b>Name of Equipment</b>	<b>Description</b>	
<b>BDS</b>	<b>UG</b>	<b>Microbiology Pathology</b>	Olympus Monocular & Binocular Microscopes	Students can study Patho& Micro Slides on this	
			Autoclave	For moist heat Sterlization	
			Refrigerator	For Storing material at low temp.	
			Incubator	For observing growth of MO	
			Hot Air Oven	For Dry heat Sterlization	
			BOD Incubator	For low temperature Incubation	
<b>BDS</b>	<b>UG</b>	<b>Anatomy</b>	Binocular microscope	this is used to study microanatomy of human tissues	
			Bone cutting forcep	this instrument is used to cut bone & cartilages during dissection on cadavers	
			Microtome	this equipment is used to prepare soft tissue histology slides	
			Hot air oven	this is used for sterlizing different instruments like scalpel & knife	
			Slide box & cabinet	this is used for storing prepared histology slides	
			Microtome knife	this is used for cutting wax block into thin sections	
			Pointer lens	these are premarked lens to show specified area under microscope	
			Water bath	This equipment is used for melting the excess wax from slide during	

				preparation & staining procedure	
			Hammer	This instrument is used to show the various joint reflexes of human body	
			Surgical saw	This instrument is used to cut hard structures like skull bones & ribs	
			Computer system	this is used for various office & department related works	
			Overhead projector	this machine helps to take classes showing enlarged image of various diagrams & charts	
			Human skeleton	these are articially prepared or even original human hard tissue remains that allow students understand the skeletal framework of human body	
			Anatomical charts	These are pre made charts with diagrams of internal structures of human body	
			Torsoes (models)	these are models with removable parts to orient students to anatomical relations of various organ of body	

BDS	UG	Oral Pathology	RESEARCH MICROSCOPE	We have a Research microscope of olumpus TRINOCULAR VERSION MODEL CH20I with phase contrast, dark field, polarization, image analyzer , photomicrography. Microscopes are a mainstay in life science research but advances in imaging have allowed their use to expand into most areas of science and technology. They are commonly used to view different types of cells & analyze clinical specimens.	
		Oral & Maxillofacial Surgery	Microtome - semi automated	We hae Yorco Semi Automatic Rotary Microtome. Semi-Automatic Rotary Microtomes are synoums with Yorco Model YSI-060. This is incorporating a flawless combination of manual vertical sectioning movement with a super smooth hand wheel, combines with very high precision motorized, Digital programmable specimen feed with feather touch buttons and Digital Display.	
UG AND PG		<b>DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY</b>	Autoclave	Front loading	
			Fumigators		
			Oscillating saw	With all hand pieces	
			<b>Surgical instruments</b>	minor surgery instruments	
			General surgery kit including tracheotomy kit Minor oral surgery kit		

		Osteotomy kit		
		Cleft surgery kit		
		Bone grafting kit		
		Emergency kit		
		Trauma set including bone plating kit Implantology kit with implants		
		Distraction osteogenesis kit		
		Peizo surgical unit		
		Magnifying loops		
		Operating microscope and Microsurgery kit		
		Dermatomes		
		Needle destroyer		
		Ultrasonic Cleaner capacity	used for sterilisation of instruments	
		3.5 lts		
		Formalin chamber		
		Pulse oxymeter		
		Ventilator		
		Major operation theatre with all facilities		
		Fibrooptic light		
		Inpatient beds		
		Fiber optic laryngoscope		
UG AND PG	Orthodontics & Dentofacial Orthopaedics	Vacuum /pressure moulding unit Hydrogen soldering unit Lab micromotor Spot welders Model trimmer (Double disc) Light curing unit High intensity light curing unit Polishing lathes Tracing tables SLR digital camera Scanner with transparency adapter		

UG AND PG	Pedodontics& Preventive Dentistry	RVG WITH INTRA ORAL X RAY UNIT	X RAY PROCEDURE	
		AUTOMATIC DEVELOPER	XRAY PROCESSING	
		PULP TESTER	VITALITY TESTING	
		APEX LOCATOR	WORKING LENGTH DETERMINATION	
		INJECTABLE GP CONDENSER	OBTURATION	
		GLASS BEAD STERLIZER	STERLIZATION	
		ULTRA SONIC SCALER	ORAL PROPHYLAXIS	
		NEEDLE DESTROYER	WASTE DISPOSAL	
		ULTRASONIC CLEANER CAPACITY 3.5 LITER	STERLIZATION	
		AMALGAMATOR	MANIPULATION OF AMALGAM	
		PLASTER DISPENSER	STORAGE OF PLASTER	
		LCD PROJECTOR	PRESENTATION	
		LIGHT CURE UNIT	RESTORATION	
		AIROTOR	ACCESS CAVITY PREPARATION	
		CLINICAL MICROMOTOR	BAND PINCHING	
		MICROTORCH	SOLDERING	
		PHANTOM HEAD TABLE WITH ATTACHED LIGHT AIROTOR AND MICROMOTOR	CAVITY PREPARATION	
		SPOT WELDER	WELDING	
		FORMALIN CHAMBER		
		CONSCIOUS SEDATION UNIT	NITROUS OXIDE SEDATION	
AUTOCLAVE	STERLIZATION			
MODEL TRIMMER	CAST TRIMMING			

UG AND PG	Periodontics & Implantology	<ol style="list-style-type: none"> <li>1. RVG</li> <li>2. Radiofrequency Unit</li> <li>3. Electrocautery Unit</li> <li>4. Iontophoresis Unit</li> <li>5. Ultrasonic scaler</li> <li>6. Autoclaves</li> <li>7. Implant Surgical Kit</li> <li>8. Implant Removal Kit</li> <li>9. Centrifuge Machine</li> </ol>	<ol style="list-style-type: none"> <li>1. Used to determine the condition of periodontium</li> <li>2. Used for undergoing various types of surgeries operculectomy, frenectomy, gingivectomy</li> <li>3. Used to cut and coagulate the tissues at surgical sites in various procedures, like operculectomy, frenectomy, gingivectomy</li> <li>4. Used for drug delivery, and to treat dentinal hypersensitivity</li> <li>5. Used for supra gingival and subgingival scaling</li> <li>6. Used for sterilizing instruments</li> <li>7. Used for placement of implants</li> <li>8. Used for removing the implants</li> <li>9. Used in preparation of the PRF, PRP, and also sticky bone graft, for regeneration of the tissues.</li> </ol>	
	Public Health Dentistry	Mobile dental van	Mobile dental van with two dental chairs with	
			all the attachments and adequate sitting	
			space for 15 to 20 people	

		Dental chairs	Electrically operated with shadowless lamp, spittoon, 3 way syringe, instrument tray and motorized suction, micromotor attachment with contra angle handpiece,airoter attachment, ultrasonic scaler (Piezo) with detachable autoclavable hand piece with min 3 tips.	
		Ultrasonic scaler,	Oral Prophylaxis	
		Ultrasonic cleaner capacity 3.5 lts	To clean instruments,Minimum capacity 13 liters with mesh bucket with digital timer	
		Generator	For mobile dental van	
		Public address system, audio-visual aids	For oral health education,Announceme nts	
		Television	For oral health education	
		Digital Versatile Disc Player	For oral health education	
		Instrument cabinet, emergency medicine kits, Blood pressure apparatus	Miscelleneous	
		Portable oxygen cylinder	For emergencies	
		Portable dental chair	Suitcase unit with airrotor, micromotor, scaler and compressor 0.25HP	
		Intraoral x-ray	Portable, 70 KV, 8mA	
		Autoclaves	Having wet and dry cycle, which can achieve 135°C with minimum capacity of 20 liters	
UG AND PG	Conservative &Endodontics	Dental Chairs and Units	for performing clinical procedures	

		ENDOSONIC HANDPIECES – Micro endosonic Tips, retro treatment	for clinical and surgical procedures	
		Mechanised rotary instruments including hand pieces (speed and torque control) and hand instruments various systems	biomechanical preparation during root canal procedure	
		Rubber dam kit	isolation	
		Autoclaves for bulk instrument sterilization vacuum (Front loading)	sterelization	
		Autoclaves for hand piece sterilization	sterelization	
		Apex locators one for every two chairs	for working length determination	
		Pulp tester	assessing pulp vitality during diagnosis	
		Equipments for injectable thermoplasticized gutta percha	three dimensional obturation of root canal	
		Operating microscopes 3 step or 5 step magnification	AESTHETIC,RETRIEVAL, MICROENDODONTICS	
		Surgical endo kits (Microsurgery)	retrograde preparation of root end	
		Set of hand instruments (specifications required)	for diagnostic and operative procedures	
		Sterilizer trays for autoclave	sterelization	
		Ultrasonic cleaner capacity 3.5 lts	sterelization	
		Variable Intensity polymerization equipments - VLC units	light polymerisation of composites and bleaching agents	
		Conventional VLC units one for every two chairs	light polymerisation of composites and bleaching agents	
		Needle destroyer	for discarding used needles	

		Magnifying loupes one for students and one for faculty	microendodontics	
		LCD projector	for documentation and presentation puposes	
		Composite kits with different shades and polishing kits	for esthetic appearance of composite restorations	
		Ceramic finishing kits, metal finishing kits	for esthetic appearance of prosthesis and indicrect restorations	
		Amalgam finishing kits	for esthetic appearance of amalgam restorations	
		RVG with x-ray machine developing kit	for intra oral radiographs	
		Chair side micro abrasion	for esthetic purposes	
		Bleaching unit	for esthetic purposes	
		Instrument retrieval kits	removal of broken endodontic instruments	
		Computer with internet connection with attached printer and scanner	for documentation purposes	
		Refrigerator	cold storage of dental materials	
		Equipments for casting procedures	for prosthesis	
		Equipments for ceramics including induction casting machines/ burnout preheat furnaces/ wax elimination furnaces	for prosthesis	
		Lab micro motor/ metal grinders / sand blasters/ polishing lathes/ duplicator equipment/ vacuum investment equipments	for prosthesis	
		Laser (preferably hard tissue)	for advanced endodontics	

	<b>Prosthodontics,Crown and Bridge</b>	Semi adjustable articulators	Hanau and Gnatus	
		Dental casting machine	Induction casting machine for casting of crowns and bridges	
		Wax burnout furnace	casting procedures	
		Surveying unit	surveying of casts	
		Autoclave	sterilization	
		Model Trimmer with Carborandum Disc	trimming of casts	
		Porcelain furnace	metal ceramic restorations	
		Sand blasting unit	sand blasting of crowns and bridges	
		Ultrasonic cleaner	Ultrasonic cleaning	
		Heavy duty lathe	lab procedures	
UG AND PG	<b>ORAL MEDICINE and RADIOLOGY</b>	IOPA X-ray machine OPG machine ALLENGER full body machine CBCT TENS machine Dark room with safe light facility	The Department of Oral Medicine and Radiology has an area of 6480 Sq Ft with all latest radiographic and treatment facilities. Latest CBCT machine is installed for diagnosis of all oral and facial lesions. TENS machine for treatment of myofascial pain disorders is also available. OPG machine for extra oral radiography (both conventional and digital) is available. Seperate unit for IOPA is present for patients.	



Name of Programme	Level	Name of laboratory	Name of Equipment	Description
BPT	UG	Exercise therapy Lab	Exercise therapy lab is well furnished and equipped with gait re-education unit, strength training unit, balance and posture rehab unit, movement therapy unit modern exercise therapy equipment like treadmill, stationary cycle, quadriceps table, resistance band, suspension therapy etc.	Exercise Therapy lab is equipped with all latest equipments which are used to rehabilitate the patient. Different exercise techniques are demonstrated in the lab and the students are encouraged to practice these different techniques on each other or on simulated models and gain confidence in performing these skills before implementing the same on the patients. Exercise Therapy lab is equipped with all latest equipments which are used to rehabilitate the patient.
		Electrotherapy	Electrotherapy lab is well furnished and equipped with advanced electrotherapy modalities like LASER Therapy, Ultrasound therapy, shortwave diathermy, Microwave Diathermy, UVR and IR lamps, Electric Muscle Stimulator etc.	Electrotherapy lab trains students in the basic skills of treatment using high and low frequency electrotherapy modalities which are used for reducing pain and improving strength. We use and train students in advanced testing and training of Electrotherapy modalities. Electrodiagnosis primarily aims at creating a diagnostic facility of Strength-duration Curve under Expert faculties in the field. We also train Undergraduates and Post graduate students and enable them to understand the basics and advances in the field of electrotherapy.
BMLT	UG	Micro and Biochemistry lab	Binocular Microscope, Monocular Microscope, Autoclave, Centrifuge Incubator Hot air oven, Water bath Colorimeter, Semi-autoanalyzer, Digital analytical balance, Urinometer for practical and teaching purpose.	Micro and Biochemistry lab is used to learn about the biological processes which take place in cells and organisms. Micro and Biochemistry lab used to study the properties of biological molecules, for practical purpose
BMLT	UG	Pathology lab	Microtome, pH Meter Hotplate & Magnetic stirrer Neubauer's chamber, Needle destroyer, haemoglobinometer Micropipettes RBC & WBC Pipettes, Wintrobe's western grain's	Students perform laboratory testing and analysis on body fluids and other specimens to help determine the presence or absence of disease.
BPT	UG	Museum	Articulated human skeleton model, bone set, various joint models, organ specimens	Anatomy museums display the intricacy of human anatomy to students, anatomy museum is well furnished and displayed of specimens. It is designed to function as in an institute where active learning can take place, thus including the museum in the mainstream of medical education.

Sno.	Name of Programme	Level	Name of Facility	Short Discription
	<b>B.D.S &amp; M.D.S</b>	<b>U.G &amp; P.G</b>	Seminar Hall	9 Halls. each department has its own seminar hall. It is a training room with well- equipped data projection and sound reproduction. It is a well- ventilated room used for undertaking seminars, meetings, conferences etc.
			Lecture Hall	4 Lecture Halls. there are four well ventilated, well equipped rooms with smart boards, projectors and latest audio visual aids that can house upto 150 people. Lecture halls have also been equipped with facilities for E-learning. They are under the CCTV surveillance.
			Classroom	13 Classrooms in total. (9 Seminar Rooms and 4 Lecture Hall) Class rooms have been equipped with facilities for E-learning. They are well ventilated, well equipped rooms with smart boards, projectors and latest audio visual aids that can house upto 150 people They are under the CCTV surveillance.
			Demonstration Room	each department has its own demonstration room. They are very important in medical science education system. Spacious, well lit and well ventilated rooms with comfortable seating arrangement are available for smooth conduct of classes.
			Laboratories	our laboratories are completely sterilized in accordance with the sterilization protocols. These are fully functioning rooms equipped with latest aids that make all treatment(fabrication) possible inhouse.
			Computer Labs	1 fully functioning computer Lab with 12 well equipped workstation with high bandwidth internet connectivity round the clock. Students and researchers have 24 hours access to the computational facilities with all the latest E-learning tools.
			Total Department	There are 9 departments that provide all available advanced dental treatments with a full complement of staff.
			Departmental Laboratories	our laboratories are completely sterilized in accordance with the sterilization protocols. These are fully functioning rooms equipped with latest aids that make all treatment (fabrication) possible inhouse.
			Research Laboratories	Centre for scientific research and development is a research wing of People's group. It encompasses the clinical and community research efforts of the institution. The goal of research at CSRD is to solve the puzzle of diseases that affect the humanity at large.The aim is to get positive outcomes through community health programmes, clinical trials and experimental therapeutics.
			Library	Library is spread over an area of 8000 square feet which is well ventilated and well lit. The library has more than 4000 books and journals of all the dental and medical disciplines.
			Departmental Library	each department has its own library. It is fully stocked with the respective books and journals for easy access to the post graduate students and the staff.

<i>Sn.</i>	<i>Particulars</i>	<i>Total Numbers</i>
1	Total No Of Seminar Hall	9
2	Total No Of Lecture Hall	4
3	Total No Of Classroom	13
4	Total No Of Tutorial Room	-
5	Total No Of Demonstration Room	-
6	Total No Of Laboratories	6
7	Total No Of Computer Labs	1
8	Total No Of Department	9
9	Total No Of Departmental Laboratories	9
10	Total No Of Research Laboratories	-
11	Total No. Of Library	1
12	Total No. Of Departmental Library	9

<i>With Ict Facility (Total Number)</i>	<i>Without Ict Facility (Total Number)</i>	<i>Remark</i>
9	-	-
4	-	-
13	-	Seminar Hall + Lecture Hall
-	-	-
-	-	-
-	6	-
-	-	-
-	9	-
-	9	-
-	-	-
-	-	-
-	9	-

Name of Programme	Level	Name of laboratory	Name of Equipment	Make/Supplies	Description		
D.D.S. & M.D.S	UG & PG	Oral Medicine & Radiology	Orthopantomogram	Planmeca manufactured OPG machine	Orthopantomogram allows examination of the entire dentofacial region in a single film radiograph which can be taken by this machine are TMJ tomogram, lateral cephalogram, PNS and Antero-posterior view. In the digital image using the software linear measurements of soft and hard tissues can be done. Immediately after the exposure the image will be displayed on the computer monitor, further hard copy can be obtained using the digital printer		
			Digital Printer	Kodak dry view 5800 Laser imager	All the images that are captured are stored in the computer and with the use of software, digital prints of the images can be obtained immediately.		
			Dental Intraoral Camera		An intraoral camera is a tool that dentists use to look at various parts of mouth more closely. The intraoral camera is a lightweight, stylish tool which can be used in order to take quality colour pictures of your teeth and gums and other parts of your mouth. These images can be stored in the desktop and can be used for comparison and to monitor the progress and response of the disease to the treatment.		
			Fibro optic Mouth Mirror		It is an Adjunctive Diagnostic Aid for Anterior and Posterior Interproximal Caries and Occlusal Caries Diagnosis, Detection Of Calculus, Evaluation Of Stained Margins Of Composite Resins, Evaluation Of Cusp Fractures And Cracked Teeth, As An Exploration Tool To Illuminate Endodontic Access And Root Canal Orifices Within The Pulp Chamber Of Teeth During Endodontic Treatment		
				Public Health Dentistry			
				Oral and Maxillofacial Surgery			
				Oral Pathology	Semi Automatic Leica Microtome		Used for tissue cutting, both hard and soft, for staining
					Paraffin Wax Bath		Removal of wax from ribbon after microtomy
					Centrifugal Machine		For blood investigation
					Stereo Microscope		for hard tissue analysis
			Research Microscope	Olympus	With dark field and phase contrast microscopy		
		Prosthodontics Crown & Bridge	All Ceramic Furnace	Ceramaster VOP	Vign ceramic furnace is used for firing high and low firing ceramics. It has an exceptional firing quality with a heater chamber. Quartz sheathed resistance and electrical safeness.		
			Centrifugal casting machines		Centrifugal casting machines are also known as spinners, spincasters or metal spinning machines. They are used to produce castings by pouring molten metal into rapidly spinning mold in which centrifugal force from the rotation exerts pressure on the molten metal.		
			burnout furnace		A burnout furnace is used to eliminate wax from mold in preparation for casting by lost wax technique.		
			Metal ceramic furnace		ceramic master E10 is a programmable dental furnace for metal ceramics. It is designed for all type of dental metal ceramics with completely controlled process of firing		
			sand-blasting unit		Sandblasting can remove rust and residue from oxidation from materials quickly and efficiently. It can also be used to change the condition of metal surface such as through removing scratches or casting marks.		
		Conservative & Endodontics Dentistry	Semi Adjustable Articulator with Face Bow	Gnatus	mechanical instrument that represents the TMJ and the jaw members to which maxillary and mandibular casts are attached to stimulate jaw movements. Helps to provide work precision without any inaccuracy.		
			Obtura		warm gutta-percha technic that uses a "gun" to warm and inject the gutta-percha filling into the root canal. Gutta-percha is heated up to ca. ... The needles to inject the gutta-percha are rather thick and cannot be used in the smallest canals close to the apex.		
			Instrument Retrieval System	Swiss Machining Inc.	device for orthograde removal of intra-and metallic obstructions. This clinical case describes the usage of IRS for retrieval of separated instrument in the posterior teeth, cleaning and shaping procedures within the root canal system.		
			Soft Tissue Laser	Hu Laser	ideal for procedures that involve cutting or contouring oral soft tissues.		
			Endodontic Microscope	Labomed	microscope greatly enhances a clinician's ability to view the tiniest details inside a patient's tooth. By magnifying vision up to 25 times that of the naked eye, the dental microscope is useful in both diagnosis and treatment.		
		Pedodontics	Acrylizer		The complete acrylizer is a single walled stainless steel construction of heavy gauge. The chamber is fully leak proof argon welded from all corners. The acrylizer consists of a tap in front for the pouring of wax as per the requirement. In built immersion type heater helps in achieving the set temperature in a short time period. The immersion heater is linked to a digital microprocessor which controls the temperature & switches off the heating after the set time is over. The instrument is designed to operate on 220V single Phase AC supply (Model with 110V power supply is also available).		
			Lathe Machine		Dental lathes are an important piece of equipment for finishing restorations in dental labs. These powerful motors make turning and polishing restorations of all types simple and efficient. Dental lathes are designed to be mounted to the bench for stability, and can feature one or two spindles.		
			Plaster Dispenser		High frequency dispenser. High quality rubber bucket for storing plaster. Dispenses plaster in dusty power form. Bottom level start and step flow of plaster instantly. Can be wall mounted		
			Hydron Hydrowelder	Jaypee	Soldering unit for all types of soldering applications, produces high temperature flame without expensive fuel. Produces intense Dry Hydro flame. Utilize only distilled water as fuel		
			Autoclave	Gnatus	Also called a steam sterilizer, the autoclave is the machine that harnesses the power of high temperature and high-pressure steam in order to sterilize germs on dental equipment, such as forceps, intended for reuse, thus ensuring its safety for the next patient.		
		Periodontics					
		Orthodontics & Dentofacial Orthopedics	Pressure Moulding Machine	Scheu Biostar	machine that transforms the plastic sheets into three dimensional shapes, through their application of heat and pressure, used for producing plastic parts that has sharp details and fits nicely to specific products.		
			Electropolishing Machine	Orthocare	To clean & recondition stainless steel parts. Variable timer controlled operation.		
			Mini Implant Kit	Denticon Orthodontic Micro Implant	to treat a wide range of malocclusion than those could be treated by conventional anchorage system, enable the orthodontists to have good control over tooth movement in all three dimensions but also help them to provide the best of the treatment result.		

## SCHOOL OF PHARMACY & RESEARCH

S.No.	PARTICULARS	TOTAL NUMBERS	WITH ICT FACILITY (TOTAL NUMBER)	WITHOUT ICT FACILITY (TOTAL NUMBER)	REMARK
1	TOTAL NO OF SEMINAR HALL	1	1	0	
2	TOTAL NO OF LECTURE HALL	---	---	---	
3	TOTAL NO OF CLASSROOM	7	1	6	
4	TOTAL NO OF TUTORIAL ROOM	--	---	---	
5	TOTAL NO OF DEMONSTRATION ROOM	--	---	---	
6	TOTAL NO OF LABORATORIES	16	---	---	
7	TOTAL NO OF COMPUTER LABS	1	1	0	
8	TOTAL NO OF DEPARTMENT	-----	---	---	
9	TOTAL NO OF DEPARTMENTAL LABORATORIES	---	---	--	
10	TOTAL NO OF RESEARCH LABORATORIES	---	--	--	
11	TOTAL NO. OF LIBRARY	1	--	--	
12	TOTAL NO. OF DEPARTMENTAL LIBRARIES LIBRARY	--	--	--	
13	MUSEUM	1	---	---	



## Details of Classrooms

S.No.	Room No.	Capacity	Floor	Type of Classroom	Department
1	G - 8		Ground floor	Classroom, Seminar Hall	App. Sc.
2	G - 17	20	Ground floor	Classroom	App. Sc.
3	G - 18	20	Ground floor	Classroom	App. Sc.
4	G - 19	25	Ground floor	Classroom	App. Sc.
5	G - 6		Ground floor	Classroom	App. Sc.
6	G - 27	20	Ground floor	Classroom	App. Sc.
7	F - 9	30	First floor	Classroom	ME (B.Tech)
8	F - 11	30	First floor	Classroom	ME (B.Tech)
9	F - 12	30	First floor	Classroom	ME (Diploma)
10	F - 14	30	First floor	Classroom	ME (Diploma)
11	WS Sports		First floor	Classroom	ME (Diploma)
12	S - 11	30	Second floor	Classroom	C.S (B.Tech)
13	S - 14	30	Second floor	Classroom	C.S (B.Tech)
14	S - 16	30	Second floor	Classroom	C.S (B.Tech)
15	S - 2	30	Second floor	Classroom	C.S (Diploma)
16	S - 3	30	Second floor	Classroom	C.S (Diploma)
17	S - 4		Second floor	Classroom	CE (B.Tech)
18	S - 10		Second floor	Classroom	CE (B.Tech)
19	T - 8	25	Third floor	Classroom	CE (B.Tech)
20	T - 15		Third floor	Classroom	CE (Diploma)
21	T - 16		Third floor	Classroom	CE (Diploma)
22	F - 4		First floor	Classroom	CE (Diploma MN)
23	T - 1	25	Third floor	Classroom	EE (Diploma)
24	T - 2	20	Third floor	Classroom	EE (Diploma)
25	T - 3	60	Third floor	Classroom	EE (B.Tech)
26	T - 13	30	Third floor	Classroom, Seminar Hall	EE (B.Tech)
27	T - 14		Third floor	Classroom	EE (B.Tech)
28	F - 5		First floor	Classroom	EC
29	F - 7		First floor	Classroom	EC

## Details of Seminar Hall

1	G - 8		Ground floor	Seminar Hall	CS
2	S - 1	60	Second floor	Seminar Hall	CE
3	T - 13		Third floor	Seminar Hall	EE
4	T - 3		Third floor	Seminar Hall	EC
5	G - 26		Ground floor	Seminar Hall	ME

## Details of Tutorial

1	G - 25		Ground Floor	Tutorial Room	ME
2	S - 7		Second Floor	Tutorial Room	CS
3	G - 14		Ground Floor	LAB/Tutorial Room	EE

Name of Program	Name of laboratory	Name of Equipment	Description
Mtech+BTech+Diploma ( Mechanical )	Heat & Mass Transfer	Heat Pipe Apparatus	In this lab the concept of heat transfer between two medium is calculated by given apparatus
		Forced Convection Apparatus	
		Natural Convection Apparatus	
		Emissivity Measure Apparatus	
		Critical Heat Flux Apparatus	
		Calibration Thermocouple Apparatus	
		Thermal Conductivity of Metal Rod Apparatus	
		Parallel Counter Flow Heat Exchanger	
		Stefan Boltzmann Apparatus	
	Dynamics of Machine / Theory of Machine	Universal Governor Apparatus	In this lab students understand the concept of various mechanism used in machines and in moving bodies
		Motorized Gyroscope	
		Universal Vibration Apparatus	
		Whirling of Shaft Apparatus	

	Static & Dynamic Balancing Apparatus	
	Cam Analysis Apparatus	
	Model of Inversion of Four Bar Link Mechanism	
	Model of Reciprocating Engine Mechanism	
	Model of Mechanical Brake	
	Model of Hydraulic Brake	
	Model of Disc Brake	
	Model of Band Brake	
	Model of Single Shoe Brake	
	Model of Double Shoe Brake	
	Model of Internally Expanding Brake	
	Model of Band & Block Brake	
	Model of Prony Brake Dynamometer	
	Model of Conical Friction Clutch	
	Model of Plate Clutch	
Strength Of Material	Universal Testing Machine	Many test can be done in this lab on mechanical properties of material
	Hardness Testing Machine	
	Impact Testing Machine	

Basic Civil & Engineering Mechanics Lab	Polygon Forces Apparatus	In this lab students study about various forces applied on static bodies
	Parallel Forces Apparatus	
	Bell Crank Lever	
	Rotating Disc Apparatus	
	Simple Jib Crane	
	Horizontal Plane Apparatus	
	Inclined Plane Apparatus	
	Shear Force Apparatus	
	Bending Moment Apparatus	
	Moment of Inertial - Fly Wheel	
	Screw Jack with Stool	
	Simply Supported Beam	
	Differential Wheel and Axle	
<b>Fluid Mechanics Lab</b>	LOSSES IN PIPE APPARATUS	various practical can perform on fluid at rest and fluid at motion
	IMPACT OF JET APPARATUS	
	RAYNOLD'S APPARATUS	
	BERNOULI'S THEOREM APPARATUS	
	ORIFICE AND MOUTHPIECE APPARATUS	
	PITOT TUBE APPARATUS	
<b>Basic Mechanical Engine</b>	2 Stroke petrol engine model.	Study of basic mechanical devices used in automobile and thermal power plant
	2 Stroke diesel engine model.	
	4 Stroke petrol	

<b>ring Lab</b>	engine model.
	4 Stroke diesel engine model.
	Simple Steam engine Model (Small).
	Model of Cornish Boiler.
	Model of Chock ran Boiler.
	Model of Lancashire Boiler.
	Model of Locomotive Boiler.
	Model of Babcock-Wilcox Boiler.
	Model of Steam super heater
	Model of Green's Economizer.
	Model of Pressure gauge.
	Model of Fusible plug (2 sets).
	Model of Steam Injector.
	Model of Low Water-High Steam safety valve.
	Model of Anti Priming Pipe.
	Model of Reducing Valve.
	Model of Floating Steam trap
	Model of Dead load Safety valve.
Model of Lever loaded Safety valve.	
Model of Blow off Cock.	

	Model of Steam stop valve.	
	Model of Water level indicator.	
	Model of Feed check valve.	
	Model of Spring loaded Safety valve.	
<b>Workshop Technology</b>	BORING BAR (1/4)	Study and making of various jobs in workshop by using many instruments
	ALLEN KEY SET INCHES	
	ALLEN KEY SET M. M.	
	BENCH GRINDER M/C 6"	
	DRILL SLEAVE 2-3	
	DEAD CENTER	
	DRILL SLIVE	
	CENTER DRILL 1/4"	
	FILE FLAT 6"	
	NIDDLE FILE SET	
	H. S. S. DRILL 25 MM (T. S. )	
	H. S. S. DRILL 31 MM (T. S. )	
	H. S. S. TOOL BIT 1/4" * 4	
	H. S. S. TOOL BIT 3/8" * 4	
	H. S. S. TOOL BIT 1/2" * 4	
	HACK SAW BLADE 18" * 1/4"	
	H. S. S. TAPER SHANK DRILL 13 M. M.	
	H.S.S. TAPER SHANK DRILL 17 M. M.	

LATHE M/C 4AND1/2' WITH CHUCK
KNURLING TOOL
MEASURING TAPE (03 MTR)
MICRO METER 0-25 MM
OIL CAN
SPANNER SET M. M. SIZE
TESTER 816
TOOL HOLDER 1/4"
TOOL HOLDER 3/8"
TOOL HOLDER 1/2"
SPRIT LEVALE 8"
SURFACE GAUGE 9"
SCREW DRIVER SET 08 PCS
STEEL SCALE 12"
SHEET CUTTER 300 MM
VERNIER CALIPER 6"
Bench Grinder Machine 8"
Block Board 4x8"
Lathe Machine 6 ft
Milling Machine
Shaper Machine
Radial Drilling Machine
Bench Grinder 8 inch
Power Hacksaw 10 inch
ANGLE PLATE

6"* 6"
BOLL PEN HAMER 500MM
BOLL PEN HAMER
ANGLE GAUGE 60 <sup>0</sup>
ADJUSTABLE RANCH 12"
DRILL BIT 1- 12MM
DRILL M/C PILLER TYPE
DIVIDER 10"
COLD CHISEL
C CLAMP 8"
CENTER PUNCH
DRILL CHUCK WITCH ARBOR
CHISEL 3/4"
FLAT FILE ROUGH 10"
FLAT FILE SMOOTH 10"
FILLER GAUGE
FITTING VICE 5"
H.S.S.DRILL5M M ,08MM,10MM
HOT CHISEL
HALF ROUND FILE 12"
HACKSAW FRAME PIPE TIPE
H. S. REAMER
IMPAT DRILL M/C
IN SIDE CALIPER 10"
LETTER PUNCH 3/16"
NOSE PLIER 6"
NOSE PLIER

08"
MARKING BLOCK 9"
NUMBER PUNCH 3/16"
PLIER
OUT SIDE CALIPER 10"
PIPE VICE 02"
PIPE VICE 3"
PIN VICE
RCC DRILL SET4MM-12MM
ROUND FILE 12"
RADIOUS GAUGE 1-7 AND7.5-15
SIDE CUTTER
STEEL SCALE 12"
SQUAREFILE ROUGH 8"
TAP SET M-10
TAP SET M12
TAP HANDLE 1/2"
SPRING CALIPER 10"
TRY SQUARE 06"
TRANGULAR FILE 8"
SURFACE PLATE
SURFACE STAND
THREAD GAUGE MM
SCREW DRIVER
V BLOCK WITCH U CLAMP
V BALT B-46,47

VERNIER HEIGHT GAUGE 0- 300MM
Tap Set M – 4
Drill Bit 3 mm
BROACH M/C 06”
BOW SAW
DRILL M/C BOCH 3/8”
CLAY HAMMER 10”
CIRCULAR SAW GKS-190 S. NO.560 M/C BOSCH MAKE
DOVEL CUT CHISEL
CARPENTRY VICE 8”
CARPENTRY VICE 8”
FIRMER CHISEL
HALF ROUND FILE (RASP) 10” (J. K. )
HAMMER WITH HANDLE CROSS PIN
HAND DRILL M/C 06 MM
IRON JACK PLANE 09”
IRON JACK PLANE 09”
MALLET 06”
MALLET 06”
MORTISE CHISEL
PARALLAL JACK CARPENTRY VICE 7”
OIL STONE

RIP SAW WITH HANDLE
RASP FILE FLAT
STEEL SCALE 12" (KRISTEL)
SINGLE PIN MARKING GAUGE 12" (WOODEN)
SCREW DRIVER 08"
TRY SQUARE 6"
TENON SAW (RIP SAW)
WOODEN JACK PLANE
Pincer
ANGLE GRINDER M/C MOD G. W. S. 511-125 OE S. NO. 783000547 BOSCH MAKE
WELDING GOGGLES BLACK
ARC WELDING M/C AIR COOL
FILLER ROD BROSS
CUT OF M/C KC- 355 S. NO.050-227 (KPT- MAKE)
D. A. REGULATER
CHIPING HAMMER
CYLINDER KEY
FLUX
HAMMER
BALL PEN
HOLDER

GASE WELDING PIPE (RED & BLUE )
LEATHER APRON
LEATHER HAND GLOVES
OXYGEN REGULATER
TRY SQUARE
SLAGE HAMMER 5KG
SLAGE HAMMER 10 KG
WELDER HOLDER (600 AMP )
WELDING TORCH LONG
WELDING HAND SCREEN
WHITE PLAIN TYPE GAGGLES
WHITE GLASS
WELDING LEAD
WIRE BRUSH FLAT
WELDING TRANSFERMER (OIL COOL ) 350 AMP
GRINDING WHEEL 100x4x16 MM
Acetylene Gas Cylinder (Capacity 6.5 cu. mtr.)
Oxygen Gas Cylinder
BLOWER WITH MOTER
ANVIL 150 KG

50KG
BORIK POWDER
CRUSIBLE &SMALL LEADLE S
CHALINEYA
FULLER FOR MARKIING GROVES
FLATTER
HAND VICE
GRAPHITE POWDER
MALLET
POKER &RAKE
RUNNER ROD
RAMMER
SWAGE BLOCK 1'* 1'
TONGS
Molding Box 12" x 12"
Molding Box 8" x 8"
M. S. FLAT 50 X 5MM
M. S. FLAT 30 X 6MM
M. S. FLAT 25 X 5 MM
TEAK WOOD 2" X 1 " x18"
M. S. ROD DIA 10 MM
M. S. ROD DIA 40 MM
M. S. ROD DIA 30 MM
M. S. FLAT 4" X 2" X 12"
M. S. FLAT 3" X 2" X 12"

<b>Applied Science For First Year B.Tech &amp; Diploma</b>	<b>Chemistry Lab</b>	Abels flash point apparatus	various practical can perform in this lab regarding viscosity & calorific value of fuel
		Cleveland apparatus	
		Pensky Marten's Apparatus	
		Redwood Viscometer No.1	
		Redwood Viscometer No.2	
		Carbon Residue Apparatus	
		Cloud and pour point apparatus	
		Electric hot air Oven	
		Muffle furnace	
		Water distillation Apparatus electrically heated	
		Bomb calorimeter	
		Electronic weighing balance	
		Analytical Balance cap.200gm	
		Digital Stop Watch	
		Digital Temperature Controllers	
	Stop Clock Analog type with start stop		
	<b>Physics Lab</b>	Ammeter	Study of various measuring instruments
		Battery Eliminator	
		Denial cell	
		Electrical Vibrator	
Energy band gap			
Galvanometer			
Grating			
He- Ne laser			

		Lamp house	
		Logic gate kit	
		Magnifying Glass	
		Medal's Apparatus	
		Mercury lamp	
		Multimeter	
		Newton's Ring Apparatus	
		Nodal Slide Apparatus	
		One way key	
		PN Diode kit	
		Polarimeter set up	
		Potentiometer	
		Prism	
		Resistance box	
		Reading torch	
		Optical bench	
		Resolving power (complete arrangement)	
		Thermocouple	
		Photo cell	
		Rheostat	
		Sextant	
		Young's modulus	
		Micrometer screw gauge	
		Slotted weights	
		Sodium vapor lamp	
		Spectrometer	
		Transformer	
		Vernier calipers (digital)	
		Vernier calipers	
		Transistor kit	
		Two way key	
		Voltmeter	
		Wooden scale	
		Zener Diode Kit	
<b>Civil Engineering For M.Tech B.Tech &amp;</b>	<b>Transportation</b>	Oven NSW-142 , Narang Scientific Works	

<b>Diploma</b>	<b>Engineering Lab</b>	Crushing value Apparatus AIM 455
		Aggregate Impact Tester AIM 456
		Sieve G.I Frame 30cm dia AIM 052(63MM)
		AIM 052(40mm)
		AIM 052(31.5mm)
		AIM 052(25mm)
		AIM 052(20mm)
		AIM 052(16mm)
		AIM 052(12.5mm)
		AIM 052(10mm)
		AIM 052(6.3mm)
		AIM 052(4.75mm)
		AIM 052(pan & cover)
		Sieves Brass Frame 20cm dia AIM 053(4.75mm)
		AIM 053(2.36mm)
		AIM 053(1.18mm)
		AIM 053(600mic)
		AIM 053(300mic)
		AIM 053(150mic)
		AIM 053(75mic)
		AIM 053(pan & cover)
		Universal Penetrometer AIM 512-1

		Los Angeles Abrasion Testing machine	
		Ring & ball apparatus AIM561-1	
		Marshall apparatus AIM 550-1	
	<b>Surveying Lab</b>	Automatic level with tripod stand & staff(2) JL-224	
		Tachometer	
		GPS E-TREX	
		Survey Compass	
		Magnetic compass with stand	
		Total Station with Stand & Reflector (Electronic Distance Measurement)	
		Digital Planimeter	
		Measuring Tape	
		5m,	
		10m,	
		15m,	
		20m,	
		30m	
		Plane Table with Stand	
	<b>Concrete Material Testing Lab</b>	Vicat apparatus AIM 394	
		Le-chatelier mould AIM 400	
		Compaction factor apparatus AIM 337	
		Cube Mould cast	

	iron AIM 344	
	Magnetic compass with stand JANAK	
	Shrinkage bar mould AIM 403	
	Slump test apparatus AIM 334	
	Density basket AIM 453	
	Cylindrical Metal measures 30 Liter	
	Bulk density measures AIM 339(10LITS)	
	Sieve shaker AIM 054-1	
	Thickness gauge AIM 450	
	Length gauge AIM 451	
	Bulk density measures AIM 339(20LITS)	
	Cylindrical Metal measures 15 Liter	
	Cylindrical Metal measures 3 Liter	
<b>Engineering Geology Lab</b>	MAP-MWM 03 ASIA POLITICAL 100x70 cm	
	MAP-MWM 51 INDIA PHYSICAL 70x100 cm	
	MAP-MWM52 WORLD PHYSICAL 100x70 cm	
	MAP-WML 01 INDIA POLITICAL	

	100x140 cm
	MAP-WML 02WORLD POLITICAL 140x100 cm
	MAP-SM 11S MADHYA PRADESH 70x100 cm
	GCM 05 ROCK & MINERALS
	MINERAL BIG SIZE 2 INCH
	ORES BIG SIZE 2 INCH
	ALLOYS- SMALL PIECE
	CHARTS CHANGING FACE OF EARTH
	CHARTS GCM 02 SOLAR SYSTEM
	CHARTS GCM 03 EARTH & ITS MOTION
	LF 100 LANDFORM MODEL SET OF 8 MADE OF FIBRE
	CHART GCM 04 STRUCTURE OF EARTH
	POLITICAL CUM PHYSICAL GLOBE
	CHARTS GCM 09 OCEAN
	TOPOGRAPHICA L SHEET
	SAMPLE OF MOHRS HARDNESS SCALE

	CHART SIZE 50X75 CM ENGLISH & HINDI COMBINED	
	ROCK BIG SIZE 2 INCH	
<b>Soil Mechanics Lab</b>	California Bearing Ratio Test Apparatus & Accessories	
	California Bearing Ratio Mould Made of Gun Metal	
	Direct shear Test Apparatus	
	Electronic Weight Balance	
	Extractor Hydraulic Frame	
	G.I. Tray 1.5*1.5 Feet with Handle	
	G.I. Tray 2*4 Feet with Handle	
	G.I. Tray 3*6 Feet with Handle	
	Plastic Limit Device	
	Proctor Compaction Apparatus for Heavy Compaction	
	Rapid Moisture Meter	
	Sand Pouring Cylinder	
	Shrinkage Limit Apparatus	
	Test Sieve (Brass Frame) 4.75mm	
Test Sieve (Brass Frame) 3.35mm		

Test Sieve (Brass Frame) 2.36mm
Test Sieve (Brass Frame) 2mm
Test Sieve (Brass Frame) 1.7mm
Test Sieve (Brass Frame) 1.18mm
Test Sieve (Brass Frame) 1mm
Test Sieve (Brass Frame) 600μ
Test Sieve (Brass Frame) 425μ
Test Sieve (Brass Frame) 300μ
Test Sieve (Brass Frame) 212μ
Test Sieve (Brass Frame) 180μ
Test Sieve (Brass Frame) 150μ
Test Sieve (Brass Frame) 75μ
Test Sieve (G.I. Frame) 100mm
Test Sieve (G.I. Frame) 90mm
Test Sieve (G.I. Frame) 80mm
Test Sieve (G.I. Frame) 75mm
Test Sieve (G.I. Frame) 63mm
Test Sieve (G.I. Frame) 53mm
Test Sieve (G.I. Frame) 50mm
Test Sieve (G.I. Frame) 45mm
Test Sieve (G.I. Frame) 37.5mm
Test Sieve (G.I. Frame) 26.5mm

	Test Sieve (G.I. Frame) 22.4mm Test Sieve (G.I. Frame) 20mm Test Sieve (G.I. Frame) 19mm Test Sieve (G.I. Frame) 16mm Test Sieve (G.I. Frame) 13.2mm Test Sieve (G.I. Frame) 12.5mm Test Sieve (G.I. Frame) 11.2mm Test Sieve (G.I. Frame) 10mm Test Sieve (G.I. Frame) 9.5mm Test Sieve (G.I. Frame) 6.7mm Test Sieve (G.I. Frame) 6.3mm Test Sieve (G.I. Frame) 4.75mm Liquid Limit Test Apparatus	
<b>Environmental Engineering Lab</b>	Beaker 500ml B.O.D. Bottles 300ml Burette 50ml Carbon Dioxide Free Distiller Water 5 Liter Erlenmeyer Flask 500ml Filter Paper Lab Thermometer Measuring Cylinder 100ml Porcelain Evaporating	

		Dishes 150-200ml	
		Pipettes 10ml	
		Regents Bottle 250ml	
		Reflux Apparatus	
<b>Computer Science Engineering For M.Tech BTech &amp; Diploma</b>	<b>Programming Lab</b>	30 Computers with keyword and Mouse	
	<b>Database lab:</b>	30 Computers with keyword and Mouse	
	<b>Software Project Lab</b>	30 Computers with keyword and Mouse	
		30 Computers with keyword and Mouse	
	<b>Hardware/Language Lab</b>	30 Computers with keyword and Mouse	
		30 Computers with keyword and Mouse	
<b>Advanced Tech Lab(Linux Lab)</b>	30 Computers with keyword and Mouse		
<b>Electronics &amp; TeleCommunication Engineering Lab for M.Tech B.Tech &amp; Diploma</b>	<b>Basic Electrical &amp; Electronics Engineering</b>	Analog Multimeter	
		Adder & Subtractor Kit	
		CRO	
		Logic Gates Kit	
		Flip-flop kit	
		Half & Full adder Kit	
		Transistor Kit	
		Demorgan's Theorem kit	
		Function Generator	

	Digital Multi meter	
<b>Electronic Devices &amp; Circuits</b>	Power supply	
	CRO	
	Function generator	
	MOSFET Characteristics kit	
	Rectifier kit	
	UJT Characteristics kit	
	Diode Characteristics kit	
	SCR Characteristics kit	
	FET Characteristics kit	
	Digital Multimeter	
	OP-AMP (adder/ scalar)	
	OP-AMP (inverting/ non-inverting/ differential)	
	OP-AMP (integrator/ differentiator)	
	Multivibrator kit	
	Hartley oscillator kit	
	Colpitt's oscillator kit	
	Wien bridge oscillator kit	
	Schmitt trigger & comparator kit	
	Class A amplifier kit	
	Class B amplifier kit	

		Differential amplifier kit	
		Active filter kit	
	<b>Electronic Instrumentation</b>	LVDT trainer kit	
		Power supply	
		CRO	
		Function generator	
		Wheatstone bridge kit	
		Schering bridge kit	
		Maxwell bridge kit	
		Anderson bridge kit	
		Digital Multimeter	
		<b>Digital Logic Design</b>	Analog to Digital converter
	Binary Adder/Subtractor		
	Digital to Analog converter		
	Encoder/Decoder		
	Multiplexer/Demultiplexer		
	Modulo N Programmable Counter		
	Flip-flop		
	CRO		
	Power supply		
	Demorgan's Theorem Trainer kit		
	J-k and T type flip flop kit		
	Adder and Subtractor trainer		

		kit	
		RS,D,JK salve trainer kit	
		Half and Full adder trainer kit	
		Digital Multimeter	
	<b>Analog &amp; Digital Commu nication</b>	DSB/ SSB AM Transmitter Trainer	
		Data Formatting & Carrier Modulation Transmitter Trainer	
		Delta, Adaptive Delta & Delta sigma Modulation/ Demodulation Trainer	
		Frequency Modulation/ Demodulation Trainer	
		Frequency Division multiplexer/ Demultiplexer Trainer	
		CRO	
		Power supply	
		PAM,PPM,PWM Modulation Demodulation kit	
		TDM-pulse amplitude modulation/Dem odulation kit	
		Amplitude demodulation receiver kit	
		Data	

	reconditioning & carrier demodulation receiver kit	
<b>Microwave Engineering</b>	Microwave Test Bench	
<b>Communication Network &amp; Transmission Line</b>	Transmission Line Trainer Kit	
<b>Antenna &amp; Wave Propagation</b>	Antenna Trainer Kit	
<b>Microprocessor</b>	8085 Microprocessor kit	
	8086 Microprocessor kit	
	IC Tester Module	
	Dual Channel 8-bit card	
	Traffic Light controller card	
<b>Optical Communication</b>	Optical Fiber Trainer kit	
	Optical Fiber Trainer kit (PC to PC Comm.)	
<b>TV &amp; RADAR Engineering</b>	Monochrome TV Trainer Kit	
	Color TV Trainer	

		Kit	
	<b>Minor &amp; Major Project Lab</b>	Component Box	
		Disoldering Pump	
		Bread Board	
		Nose Plier	
		Plucker	
		Soldering Iron	
		Tester	
		Wire stripper & cutter	
		Screw Driver	
		Soldering Wire	
		Soldering Paste	
		Wick Wire	
		Hook Up Wire	
		Diode(LED)	
		Printed circuit board	
<b>Electrical Engineering Lab For M.Tech B.Tech &amp; Diploma</b>	<b>AC MACHINE LAB EQUIPMENT DETAILS</b>	Oil testing set	
		Auto transformer starter	
		Panel for universal motor	
		Panel for equivalent of 1 phase induction motor	
		Set for load test on 1 ph induction motor	
		Set for load test shaded pole motor	
		Set for speed control of 3 ph IM by v/f method	
		Set for study of 3Ph IM with 1 phase preventer	
		Panel for speed torque characteristics of 3	

	<p>ph IM</p> <p>Panel for OC/SC test of 3 phase transformer</p> <p>Panel for no load &amp; block rotor test on 3 ph IM</p> <p>Panel for load test on 3 Ph IM</p> <p>Panel for study of slip ring motor by rotor resistance starter</p> <p>Panel for V curve of synchronous motor</p> <p>Panel for synchronizing of two alternator</p> <p>Panel for regulation of 3 ph alternator by ZPF and ASA method</p> <p>Panel for Xd and Xq slip test on 3 phase alternator</p> <p>Wattmeter</p> <p>Digital tachometer</p> <p>1 phase transformer</p> <p>3 Phase transformer</p>	
<b>BEEE Lab &amp; Network Lab</b>	<p>Auto Transformer Small</p> <p>Auto Transformer Big</p> <p>Delta Transformer (Del 808,808,809)</p> <p>Voltmeter (0-300 V)</p> <p>Ammeter (0-10A)</p> <p>Ammeter (0-1A)</p>	

	Wattmeter	
	DC Machine	
	Induction Motor (Single Phase Capacitor start)	
	Induction Motor (Single Phase IM Capacitor Start Run Type)	
	Network Kit	
	Continuously Variable Auto Transformer 3 Phase	
<b>Control System Lab Equipment Details</b>	DC Motor Position Control	
	AC Motor Position Control	
	DC Servo Motor Control Unit	
	Compensation Design System.	
	Speed – Torque Characteristic of DC Servomotor	
	CRO Observation Block	
	PID Controller	
<b>DC machine Lab Equipment Details</b>	Panel for speed control of DC motor by ward leonard method	
	Panel for swinburne’s test on DC shunt motor	
	Panel for hopkinson’s on DC shunt machine	
	Panel for speed control of DC shunt machine	

	Panel for test on DC series machine	
	1 ph resistive load	
	Panel for load test on DC series machine	
	Synchronous machine open cut model	
	1 ph transformer (1 kva 220V/220V)	
	Load test on DC compound motor	
	Load test on DC compound generator	
	Techo meter	
	Wattmeter	
<b>Power System Protection Lab Equipment Details</b>	Panel for characteristics of MCB	
	Panel for static over current relay	
	Panel for Bucholz relay	
	Panel for static under voltage relay	
	Panel for static over current relay	
	Panel for I.D.M.T. over current relay	
	Panel for percentage biased differential relay	
<b>Electrical Measurement &amp;</b>	Panel for Calibration of a Dynamometer type Watt Meter	
	Panel for	

<b>Instrumentation Lab Equipment details</b>	Calibration of Single Phase Energy Meter.	
	Panel for Measurement of 3 Phase Power of 2 Watt Meter Method	
	-Single Phase Capacitive load 10 Amp	
	-Three Phase Capacitive load 10 Amp	
<b>Major Project Lab Details</b>	To measure Power & P.F. by 3 Amp meter & 3 Volt meter method.	
	Function generator	
	AC Supply	
	Regulated DC Power Supply	
	Digital Storage Oscillator with USB Port	
	PCB Port	
	Microcontroller	
	Soldering and Desoldering kit	
	Bread Board with Power Supply	
	Bread Board without Power Supply	
<b>PCB Design Lab Equipment Details</b>	Electric Oven	
	Plate Cutter	
	PCB Drill Machine	
	PCB Film Maker	

	DIP Coat
	Dye Maker
	UV Ray
	Red Light

**4.1.1 (A)**

<b>S.no.</b>	<b>Name of Program</b>	<b>Level</b>	<b>Name of Facility</b>	<b>Short Description</b>
<b>1</b>	<b>B.TECH</b>	<b>UG</b>	<b>Smart Board , Seminar Hall Conventional Board , Conference room</b>	<b>Smart Board : Used to teach with animation &amp; 3D views Seminar halls : Used to share live demo of models with students Conference Rooms : Used to discuss research topic with students</b>
<b>2</b>	<b>M.Tech</b>	<b>PG</b>	<b>Smart Board , Seminar Hall Conventional Board , Conference room</b>	<b>Smart Board : Used to teach with animation &amp; 3D views Seminar halls : Used to share live demo of models with students Conference Rooms : Used to discuss research topic with students</b>
<b>3</b>	<b>Diploma</b>	<b>UG</b>	<b>Smart Board , Seminar Hall Conventional Board , Conference room</b>	<b>Smart Board : Used to teach with animation &amp; 3D views Seminar halls : Used to share live demo of models with students Conference Rooms : Used to discuss research topic with students</b>