

Manual of Health Sciences for Colleges in RAF

PART – A

4.1.1

The College provides the state of art infrastructure that will give the students ample learning opportunity as it is critically related to the vision of our college and hence the facilities provided were beyond the requirements of Dental Council of India and Dr NTR University of Health Sciences.

Class rooms:

All the class rooms were ICT enabled and were designed to facilitate *small group teaching* (SGT) with installed Apple TV's, Mini Mac servers and smart class program so that students can access the course lectures by intranet facility within the learning space.

Seminar Halls:

Well-equipped spacious seminar halls for each specialty, with latest audio-visual aids like LCD projectors, white boards, internet connectivity and air conditioners for conducting seminars and workshops thus provide best quality of learning experience.

Facilities for Clinical Learning:

Clinical training facilities at VDC are continually updated to ensure the most modern facilities are delivered.

- Comprehensive dental care facilitates problem based as well as case based learning in addition to effective patient care.
- Intranet *VAIDYO*, a patient data automation package, introduced in VDC where patient data is entered digitally, making it paperless clinic with centralized documentation, easy to store, retrieve and cost effective and also enabling students to work towards evidence based dentistry.

- Histology and pathology labs have thin clients installed for facilitating *virtual learning*.
- *Digital dental radiography* with both intraoral and extra oral techniques like *IOPA*, *OPG*, *CBCT* facilitates student learning from single to three dimensions.
- Eighteen Dental operating microscopes and other advanced equipment for student learning like *Lasers*, *advanced implant surgical equipment*, *TENS*, *T-scan* pressure mapping and digital occlusal record system.
- *Conscious sedation unit*, *Cryosurgery*, *Stryker Core Console Kit*
- Jaw tracker 3D, Bio JVA Joint Vibration Analysis and Bio EMG-III system.
- *Vicat penetrometer*, *Gillmore needle*, *Aquacare Air abrasion cart*.
- *Research and stereo microscope* with image analysis software.
- Equipped with *Tele-dentistry* - through which diagnosis and treatment guidance are offered to satellite clinics.
- BLS (Basic Life support) training using mannequins and trained faculty.
- The Central Sterile Supply Department ensures a quality assured environment in the clinics along with emphasizing the clinical importance of sterilization by hands on experience to students.

Learning in the Community:

Community-based dental education offers a range of positive learning experiences for students while providing required dental services for the underserved.

- College has fully equipped mobile *dental van* with dental chairs and other accessories to provide screening and treatment needs.
- Dental Outreach Programs by way of *Miles for Smiles*.
- Started 18 satellite clinics in West, East and Krishna Districts.

Laboratories:

- State of art preclinical labs equipped with patient simulators in Prosthodontic and Conservative dentistry departments help the undergraduate students have hands on experience of various dental procedures prior to their clinical postings.
- Advanced histopathology and clinical labs permit utmost patient care.

Computing equipment:

- *Wifi* enabled campus with more than 100 computers utilized for library and departmental functions. Scanners, Printers and other accessories are available.
- Regular *webinars* are conducted.
- Facilities to observe live surgical demonstrations.

Geo Tagged photos for Teaching learning:

https://photos.google.com/share/AF1QipMUzhxsjgvJyMdMc-CiM_aZ7PH1xa31iEFxu4nRH0KWXsPJAo2gSOqg0uQv9Pfshg?key=SS01ZjBEMU1aNE5CMjJPVllycDJyU3lmcnk5MHdR

4.1.2

The Institution emphasizes on physical activities to provide both fitness and mental relaxation. The college has wide options to play various sports like Cricket, Basket ball , Volley ball, Throwball, shuttle badminton, Table tennis and Gym facilities to improve their strength training. A running track was constructed for track events like running. Training was given for field events like long jump, High jump, Javelin throw, shot put, discus throw and sports meet was conducted twice in a year. Provision for cycling was provided with campus cycles. A well maintained swimming pool was established and training was given.

The annual cultural meet was well supported and participated by both staff and students involving the whole college. Various on stage and off-stage events were conducted annually. Students who are good at singing and mimicry were encouraged to give programs at Vishnu FM

radio present in our campus. For conducting cultural activities we have two closed and two open air auditoriums.

Vishnu miniplex theatre with seating capacity of 150 members was constructed and new movies and short films shot by students were projected. A well facilitated bakery was present in the campus and confectionary courses were offered to the interested students. Also, we have a car driving school which offers diving courses to interested students.

The college has well equipped infra structure for various games and sports.

S.No	Sport/ Cultural event	Area	Year of establishment	User rate
1	Badminton	Boys- 40x 18 mtrs Girls-30x 15 mtrs (wooden floor)	2010	50 members
2	Cricket	Boys- 4.25 acres Girls-2.5 acres	Boys- 2013 Girls- 2002	100 members
3	Table tennis	Boys- 10x4 mtrs Girls- 5x3 mtrs	2002	30 members
4	Basket ball	Boys- 35x19 mtrs Girls- 35x 19 mtrs	2002	30 members
5	Volley ball	Boys- 18x9 mtrs Girls- 18x9 mtrs	2002	35 members
6	Throwball	Girls- 20x12.5 mtrs – 2 coarts	2002	40 members
7	Tennis	30x18 mtrs	2002	10 members
8	Gymnasium	Boys- 2300Sqft Girls- 2000Sqft	2004	30 members
9	Swimming pool	30x 15 mtrs	2013	20 members
10	Running tracks	Boys- 400 mtrs Girls- 200 mtrs	2013	30 members
11	Yoga and meditation centre	3000 Sqft	2016	25 members
12	Boating	2acres lake	2011	10 members
13	Kayaking	2acres lake	2016	10 members
14	Vishnu FM	1200 Sqft	2007	
15	Vishnu Tv academy	500 Sqft	2008	
16	Closed auditoriums	1)Main audi-15,223 Sqft 2)Mini audi- 11,212Sqft	2001	1000 members

			2007	350 members
17	Open auditouriums	44,395Sqft	2002	2000 members
18	Boat house	15x10 mtrs	2016	15 members
19	Miniplex	3000 Sqft	2016	150 members
20	Tennikoit	30x 15 mtrs	2010	15 members

Geo-Tagged photos for sports and cultural facilities:

<https://photos.google.com/share/AF1QipNolmOFi9wpCQiM95oOJkNZNN6jIZqYvareLz9fkyVYemlvwsNaRMHXFtyKfMxglg?key=aEVTcUhxVg5T1E4eIVZYVI4TEdLSklpRk1hbU1R>

4.1.3

The institute provides high class infrastructure that caters to the needs of students, faculty and patients to offer the finest patient care and technological resources. To highlight a few,

Medical facility

In our Institute we have two Medical Centres with 25-beds and 24x7 residential doctors and staff nurses. We have a woman counsellor and clinical psychologist and lady gynaecologist on call. Medical Centre have all Medical facility like General ward, Ambulance with 24x7 driver, first aid kit and necessary equipment for any emergency purpose.

Hostel

The campus houses well ventilated spacious hostels for girls and boys separately. Air conditioned hostel rooms are also available. The salient features of hostel include self-contained toilet cum bath with hot water facility, study table with cabinet to store books, wardrobes and cots, mineral water for drinking and 24 hours high security with security guards and CCTV surveillance. Laundry and saloon services are available. The hostel mess provides good quality, hygienic well balanced food.

Cafeterias

Cafeterias and food stalls in the campus offers a varied menu and comfortable surroundings enabling students to experience a sense of “home” while in campus. Canteen provides snacks, beverages and lunch at affordable rates. Nescafe shop, fruit juice stall, Maggi stall and fresh choice bakery are also located in campus. Daily meals and breakfast facility is also made available at the campus.

Banking, Post office

Indian bank SVES Extension Counter and three ATM Centres are available at our campus. Post office and Mee-Seva are also available at the campus.

Renewable energy

We have installed solar power panels in our campus as a source of renewable energy

RO Drinking Water Plant

There is a water treatment plant in the campus where the water is treated by Reverse Osmosis (RO) plant before supplied for drinking purpose.

Sanitation facility

Toilets are provided in each floor in different blocks institute academic campus with signage boards to make it easy for the patients. Highest standard of maintenance of the toilets is daily carried out by outsourced staff.

Sewage Treatment Plant:

A sewage treatment plant has been established in our campus where the waste water is treated and utilized properly for watering the plants throughout the campus.

Roads, signage and parking services

We have ample parking with good tar road lanes and signage boards all over the campus.

Greenery

The campus has a scenic landscape with well-maintained parks, gardens and lakes.

Geo-Tagged photos for Campus Facilities:

<https://photos.google.com/share/AF1QipNxd98tfWjLgsyF2QWEggqwo-OtMDujlWlgXx4YdsNkMUYHr8My07ninAWKkHVnPA?key=YWo0OGxwcDh2RVJsZmpHRU9NNjF0VIRiQlpyeUln>

4.2.1

The infrastructural facilities available for training undergraduate and postgraduate students are in accordance with the regulations formulated by the DCI. The clinical training facilities are continuously updated to ensure that students are provided with state of the art facilities. The College is keen to provide an excellent academic environment for about 600 students with more than 100 highly competent teaching faculties. The infrastructure contains teaching and learning facilities that include general and specialized laboratories, lecture theatres, small group teaching chambers and a well-stacked library. Each specialty has an outpatient dental clinical facility equipped with electronic dental chairs connected to a centralized suction unit. 353 electronic chairs are installed in the major integrated clinical areas, 40 dental chairs are installed in the 21 satellite clinics which cater to the needs of the surrounding rural population and 2 dental chairs are installed in the mobile dental van for the outreach community services intended to improve accessibility to quality dental healthcare. The dental hospital provides inpatient services has a fully equipped operation theatre to perform major and minor surgeries, 5 bedded ICU with a ventilator support and a 20 bedded general ward with separate male and female wings.

All clinicals are complemented with digital radiographic facilities like Radiovisiographs (RVG's) and Phosphor Storage Plates (PSP's) to minimize the radiation exposure to both the patients and clinicians. The department of oral medicine and radiology is equipped with dental Cone beam computed tomography (CBCT) to provide advanced diagnostics.

The array of advanced equipments include 15 dental operating microscopes to perform advanced surgical and restorative procedures, 3 soft tissue laser units and advanced air abrasion

units, nitrous oxide sedation unit, Platelet rich plasma (PRP) centrifugation unit, T scanner and jaw trackers for advanced Prosthodontic treatments and 5 implant surgical kits along with physio-dispenser, resonance frequency analyzer, piezoelectric surgical devices for advanced surgical implantology. As a part of providing simulation training to the undergraduate and postgraduate students we have equipped an exclusive lab with 50 phantom heads. 2 adult and Pediatric mannequins are made available for training in Basic life skills.

As an effort to improve on student learning and better teaching methods we have Information and Communication Technology (ICT) enabled smaller class rooms for small group teaching and also 4 lecture galleries for the larger groups. We have adapted e-learning facilities and customised online digital repositories for uploading lectures and course materials and cloud based academic content management systems. Electronic data recording of patient information was indigenously developed as per the requirement which makes our facility paperless and film less.

To improve the research activities we have the most advanced research microscope, stereoscope and Immuno-histochemistry facilities, clinical laboratory services for the patients at nominal costs to carryout hematological investigations as an aid in diagnosis. Acrylic and ceramic Laboratories with the cutting-edge equipments are the hall mark of the institution.

Geo-Tagged photos for Patient care, teaching learning and research :

https://photos.google.com/share/AF1QipO26UfuOBzvnI4Y0I9ZiHcbiyxOr_GC-rg29eg7fwTxhO4Ax4u-CZT92QIItnZMSw?key=a19iaU82X0F0MjhiOUVITTRMa0JRT3ZVTjh3a19B

4.2.2-

Geo-Tagged photos for attached/shared Hospitals:

https://photos.google.com/share/AF1QipN0wf9SVEf8kvDeVph0OARiZz0MYvNdgpBLi5pP71loh8MzfDWO_u04lWIJtBLVA?key=R1lpNHlwTXpwbjV2cTgxbEFxUnZWRWN2NVpnd09R

4.3.1

An Integrated Library Management System or ILMS for short is an Electronic program that help Librarians and users to circulate, catalogue and track the items, manage patron activity, movement as well as to interact with databases from other Institutions. An ILMS is meant to increase the output and efficiency of a library and improve access to resources for its patrons, by automating the process that would otherwise have been done manually.

An Integrated Library Management System (ILMS) has several main features which include.

1. Database – this is where all the information belonging to a library is stored, such as machine readable cataloguing (MARC) records, patron information etc..
2. Cataloguing Module – Allows librarians to add materials to the database.
3. Circulation Module – Checks items in and out, keeping track of the location and status of the library`s resources.
4. Patron Management – this enables you to add, delete and manage your library`s patron`s.
5. Staff Interface – this is interface through which a librarian manages the ILS. Modern library management system has Web-based interfaces which are accessible through a local network or the internet via a Web-browser.
6. OPAC - The online public access catalogue. This is the interface through which your patrons can search for books and other items, access their accounts, place holds, track their circulation history, make payments for fees and fines etc.,
7. Reports – the ability to run various reports on items movement as well as staff and patron activities.

Name and features of the ILMS software - **D cap**

Name and extent of automation (fully or partially) - **partially automated**

Year of commencement and completion of automation – **2006**

Geotagged photographs of library facilities - **vdc.edu.in/library-rm**

Geo-Tagged photos for library facilities:

<https://photos.google.com/share/AF1QipMyS8IKQOfLuwcxjdL2AXZHtqsmLaPpguq9DgsRjs-F7JJUGky0wvCDmyDXUWhM7Q?key=REJldk1sMnc3Q1Y0dXZHvk16VkMxZmRTUEpOSEln>

4.3.2

Rare books are a source of basic knowledge as it evolved historically into current concepts. They may be limited addition copies with restricted availability but have significant scientific knowledge. As a protocol rare books are recommended by Head of Departments in library committee meeting. These recommendations are sent to the management for approval. Once approved librarian will try to find from relevant publishers whether any copies are available for purchase. In scenarios when publishers do not have edition we try to contact other educational institutions and procure either a soft or hard copy based on feasibility. Rare books will be for reference only because of its difficulty for procurement. There are incidences where, few senior faculty have donated their rare books to our college library for a greater cause.

We have specific digital library for collection of books that are having limited or no availability in India. We also encourage each department to have specific digital library for books including rare volumes. There is constant effort from library committee and management to procure these rare volumes of books, journals and manuscripts both in digital and hard copies.

We are attaching an annexure of rare books in our library. (These are considered based on their limited or lack of availability for purchase in India) attached under uploads.

4.3.5

Central library for Vishnu dental college is the main resource for learning. The library is spread in vast building providing accommodation to hundreds of students at once. We, at VDC insist the students to inculcate the habit of pending quality and productive hours in the library to upgrade themselves to newer trends in dentistry and moreover a calm and peaceful study environment is present for the students to go on over the exam preparation. A dedicated team is employed to work throughout the day for the benefit of the students. A library committee has

been established which undertakes the responsibility of updating the research journals and textbooks annually as per the requirements of students.

We are committed to meet and uphold the essence of oral health research and publication work bound to ethics. To achieve this, the quality world class journals are given preference and are being subscribed to the college central library. As a part of upliftment, the heads of the respective department are instructed to guide the post graduate students to spend the productive time in the library during their leisure hours. Along with this in the benefit of undergraduate students, so many books authored by renowned academicians were given preference and were upgraded for the year 2018 when compared to the past academic year. The central library is fully digitalized transforming itself into a digital library with an access to many numbers of reputed journals, databases and e-books. The Central Library of our college is a Strong self learning resource with 1342 titles and 6183 copies of books. It has an exhaustive collection National and International Journals on various specialties in dentistry and around 500 E-journal subscriptions that can be accessed through NTRMEDNET and EBSCO with broadband Internet with partially air conditioned. A separate audio-visual hall and discussion room is available for the students to encourage group interactions.

LIBRARY USER PROGRAMME:

S.No	Academic Year	Organiser	No. of U.G. students	No of P.G. students
1	2010-11	Dr.Govind Raj Kumar	100	23
2	2011-12	“	100	23
3	2012-13	“	100	35
4	2013-14	“	100	41
5	2014-15	“	100	41
6	2015-16	“	100	41
7	2016-17	“	98	41
8	2017-18	“	99	34
9	2018-19	“	100	39

4.4.1-

Geo-Tagged photos for ICT-enabled facilities, Seminar halls and Class rooms:

https://photos.google.com/share/AF1QipPyEKrM_fH8hyHZU_BRdJuGZZ3xv_kPIjcAAZ_K2MPMyGQt_Ily1IEOCZOSJVEqy1A?key=LUVTcDRqYXhaWV9yeVljaEhoSno5NnlZ_NFB4NF9n

4.4.2

Vishnu Dental College is well equipped and connected with Computers/IT to enhance the student learning process. The institution provides round the clock Internet facility throughout the campus including hostels through high speed Optical fibre and Wi-Fi in limited areas. All the Computers and audio-visual systems in Academic Block are supported by UPS and Apple server, and in Library they are supported mostly by UPS.

In recent years, the institution updated students with ipads along with high speed internet (wi-fi) connection to enhance the student learning process. Students are made to record all the case details through indigenously developed database by name “**VAIDHYO**” to maintain patient e-records with ease and convenience. The faculty prepares the teaching material using computers/ipads provided in their department and uses them for delivering their lectures. These lectures, study material, assignments and tutorials will be loaded in to the apple server to be made available for the teachers and the students. All Lecture theatres, class rooms and tutorial rooms are equipped with a Desktop Computer connected to LAN, and also with apple TV connected with server and multimedia projector.

In addition to this, faculty and students can also access e-journals, e-books and resources from the EBSCO database and through the internet facilities available on the campus. The quality of teaching-learning process is enhanced through the utilization of online resources by faculty and students. Access to various online resources is being made available to all students and faculty of the institution. The access is through IP Range of the campus which offers an open access to online resources within the campus.

The Institution deploys and upgrades the IT infrastructure and associated facilities whenever required. The server room officials in the institution asks for requirements from Heads

of Departments and considering the corresponding budgetary allocations, the financial provisions for the same are made. After getting the financial approval, quotations are invited followed by their scrutiny based on the configurations, cost, service etc.. The order for procurement is finalized and approved. Routine maintenance of computers, peripherals, network devices, servers, etc. is carried out by Server room staff.

4.5.2

Institution has civil, electrical, plumbing, computer and dental equipment maintenance and sports facilities sections with trained personnel. Administrative officer looks after activities of all the sections and inputs from the various departments are directed to the respective maintenance sections. Such requests are addresses within a reasonable time based on the criticality of the time.

Academic Facilities

Classroom: Information and Communication Technology (ICT) facilities in the all class rooms, seminar halls are periodically checked and maintained by the technical team. Air conditioners are serviced once in every 6 months by maintenance section. Library: Facilities in library such as computer section, photocopying and printing service, furniture's and ICT facilities in audio visual room are all maintained periodically by the maintenance section under the supervision of librarian.

Clinical facilities

All the preventive and corrective maintenance of dental chair units and equipments are done by trained dental equipment technicians.

Laboratories

Phantom head equipments and other equipment and instruments in the pre-clinical laboratories are well maintained with periodic preventive and corrective services.

Sports

Gymnasium, indoor and outdoor sports facilities are provided and the maintenance of such facilities is closely monitored by physical education personnel. The major dental equipments such as imaging equipments, compressors, generators, central suction motor are all under Annual and comprehensive maintenance contract.