



VINAYAKA MISSION'S
RESEARCH FOUNDATION

(Deemed to be University under section 3 of the UGC Act 1956)



VINAYAKA MISSION'S
SANKARACHARIYAR
DENTAL COLLEGE

CONSULTANCY SERVICES BROCHURE



VINAYAKA MISSION'S SANKARACHARIYAR DENTAL COLLEGE

Vinayaka Mission's Research Foundation (Deemed to be University)
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VISIONARIES



VINAYAKA MISSION'S
SANKARACHARIYAR
DENTAL COLLEGE



Late DR. A. SHANMUGASUNDARAM
FOUNDER CHANCELLOR, VMRF-DU



Dato's Sri DR. S. SHARAVANAN
PRO CHANCELLOR, VMRF-DU

DR. A.S. GANESAN
CHANCELLOR, VMRF-DU



VISION

To make dental education and dental health available to the poor and needy in the rural sector.

MISSION

To spread knowledge with recent advances and to promote research in the field of dentistry.

QUALITY POLICY

To prepare students to have in depth knowledge in both pre-clinical and clinical dentistry and update advances in diagnosis and therapeutics for the present dental disease pattern in the society.



ABOUT

Establishment: Vinayaka Mission's Sankarachariyar Dental College (VMSDC) was founded in 1986.

Accreditations: Recognized by the Dental Council of India (DCI) and the Government of India, New Delhi.

Collaborations: With 20 organizations and hospitals through Memorandums of Understanding for research and clinical training.

Academic Offerings:

- **Undergraduate Program:** Bachelor of Dental Surgery (BDS) with 100 seats, spanning 4 years plus a 1-year internship.
- **Postgraduate Program:** Master of Dental Surgery (MDS) with 38 seats, for 3 years, offering specializations in all nine specialties.
- **Diploma Programs:** Diploma in Dental Mechanics and Diploma in Dental Hygienists, each for 2 years with 20 seats each.

RESEARCH

VMSDC has established crucial committees to oversee research and innovation. The **Institutional Research Committee (IRC)** meets monthly to assess and support research projects, ensuring a dynamic and supportive environment. The **Institutional Ethics Committee (IEC)** focuses on ethical adherence in research protocols, prioritizing participant well-being. The **Institutional Innovative Council (IIC)** plays a pivotal role in promoting and sustaining an innovative culture within the institution by providing support, monitoring progress, and recognizing achievements.

IEC is registered with the **Central Drug Standard Control Organization (CDSCO)**, Reg. No. ECR/1076/Inst/TN/2018/RR-21 and with the **National Ethics Committee Registry for Biomedical and Health Research (NECRBHR)**, Reg. No. EC/NEW/INST/2023/TN/0314.

NAAC ACCREDITATION

NAAC Accreditation: VMSDC achieved a commendable score of **3.13** in the NAAC Second Cycle.

Accreditation Grade: 'A' Grade in the accreditation process.

Academic Standards: Accreditation underscores the commitment to maintaining high academic standards.

Quality Education: Recognition for fostering quality education.

Conducive Learning Environment: Acknowledgment of providing a conducive learning environment.

Continuous Improvement: The 'A' Grade reflects continuous efforts towards excellence in education.



INFRASTRUCTURE HIGHLIGHTS

Advanced Equipment:

Cone Beam CT, Endodontic Microscope, Laser dentistry, CAD-CAM

Teaching–Learning Infrastructure:

- ICT-Enabled Classrooms: 4
- Seminar Halls: 8 with Intelligent Interactive Panels
- Demonstration Halls: 2
- Skill Labs in all departments and Museum for Oral Pathology & Microbiology

Institutional Learning Management System (LMS): CAMU

IT Infrastructure: Wi-Fi facility & LAN across the campus with 200 Mbps unlimited usage



ENDODONTIC MICROSCOPE (OPTOFINE BLISS)

Optofine Bliss Endodontic Microscope

The Department of Endodontics utilizes the Optofine Bliss Endodontic Microscope, offering state-of-the-art technology to improve the accuracy and effectiveness of our endodontic procedures. Integrating this advanced technology into our practice is our commitment to providing the highest quality of care.

FEATURES AND BENEFITS

- Superior Optical Clarity
- Advanced Illumination System
- Ergonomic Design
- Variable Magnification
- Integrated Camera for Documentation for Publication

RESEARCH APPLICATIONS

- Detailed Analysis of Root Canal Anatomy
- High-Resolution Imaging for Case Studies
- Precision in Experimental Endodontic Procedures
- Enhanced Observation for Micro-surgical Techniques

CONE BEAM CT

(CARE STREAM)

In the Department of Oral Medicine, the Carestream Cone Beam CT significantly enhances patient care, diagnostic accuracy, and research initiatives. This advanced imaging technology provides high-resolution 3D imaging with minimal radiation exposure, ensuring precise and safe assessments of dental and maxillofacial structures. It facilitates accurate diagnosis and treatment planning for conditions such as oral lesions, temporomandibular joint disorders, and jaw abnormalities. The high-resolution images enable the detection and evaluation of complex oral pathologies, improving patient outcomes.

FEATURES AND BENEFITS

- High-Resolution 3D Imaging
- Low Radiation Exposure
- User-Friendly Interface
- Versatile Scanning Options
- Advanced Diagnostic Capabilities
- Comprehensive Visualization for Complex Studies
- Preoperative Planning -Surgical Implant treatment planning

RESEARCH APPLICATIONS

- Detailed Analysis of Craniofacial Structures
- Accurate Measurement of craniofacial bone
- Evaluation of Anatomical Variations
- Longitudinal Studies on Treatment Outcomes
- Improved Reproducibility of Results



UNIVERSITY IMPLANT CERTIFICATION PROGRAM **in association with NOBEL BIOCARE**

The University Implant Certification program, a collaboration between VMRDU and Nobel Biocare™ is a program designed for interns, staff, private practitioners, and alumni of VMS Dental College, offering a comprehensive learning experience in implant dentistry. With a maximum of **20 participants** per batch, the program ensures individualized attention and an interactive learning environment.

Live Surgical Demonstrations:

Witness and learn from live surgical demonstrations conducted by our experienced course mentor, providing valuable insights into advanced implant techniques.

Digital Implant Planning:

Gain hands-on experience in digital implant planning, using cutting-edge technology to enhance your skills in treatment planning and execution.

Hands-on Implant Placement:

Participate in hands-on sessions for implant placements with prosthetic rehabilitation on patients, under expert supervision, allowing you to apply your learning in a real clinical setting.



Certification

Upon successful completion of the program, participants will receive certification from the university, endorsed by Nobel Biocare, recognizing their training in implant dentistry.

SENIOR INTERNSHIP PROGRAM

Oral Surgery and Endodontics

Senior Internship Program in **Oral Surgery** is tailored for practicing dentists seeking to refine their surgical skills and expertise. This six month, full-time program provides a comprehensive curriculum that combines theoretical learning with extensive hands-on clinical experience.

Program Highlights:

- ❑ **Advanced Surgical Techniques:** Learn and practice advanced surgical procedures under the guidance of experienced faculty members.
- ❑ **Multidisciplinary Treatment Planning:** Develop skills in comprehensive treatment planning for complex cases requiring Transalveolar extractions.
- ❑ **Clinical Experience:** Gain extensive hands-on experience in various surgical procedures, including extractions.

Senior Internship Program in **Conservative Endodontics** is designed to enhance the skills and knowledge of students and practicing dentists in the field of endodontics. This six, full-time program offers a comprehensive curriculum that covers advanced endodontic procedures and techniques.

Program Highlights:

- ❑ **Complex Endodontic Procedures:** Learn and practice advanced endodontic procedures, including root canal treatments, retreatments, and surgical endodontics.
- ❑ **Digital Endodontics:** Gain expertise in digital imaging and treatment planning for precise and effective endodontic treatments.
- ❑ **Hands-On Experience:** Develop practical skills through hands-on clinical experience, working on a variety of endodontic cases.

Certification

Upon successful completion of the program, participants will receive a certificate of completion of training.

CENTRAL RESEARCH LABORATORY

Website Link: https://www.vmsdcsalem.com/research_lab.php

Hub for Exploration

Serves as a pivotal hub for academic and scientific exploration.

Research Facilities

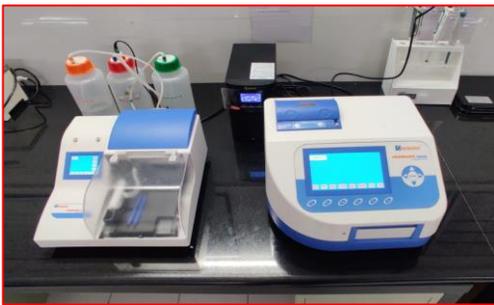
Extensive facilities and consultancy services for students, faculty, and research scholars.

External Consultancy

Facilities available for consultancy to external institutions and companies.

EQUIPMENT

- Immunohistochemistry for marker studies on tissues,
- Digital pH Meter for measuring hydrogen-ion activity in solutions,
- Centrifugal Machine for separating liquid material based on density,
- Various microscopes: Stereomicroscope, Research Microscope, Dark Ground Microscopy, Phase Contrast Microscope, Polarized Microscope, with Image Analyzer,
- Digital weighing machine.



ENZYME-LINKED IMMUNOSORBENT ASSAY (ELISA)



STEREOZOOM MICROSCOPE



DIGITAL pH – ION METER



SEMIAUTOMATIC MICROTOME



PENTA HEAD MICROSCOPE



DEEP FREEZER

CENTRAL RESEARCH LABORATORY

MAJOR EQUIPMENT	APPLICATIONS
ENZYME-LINKED IMMUNOSORBENT ASSAY (ELISA)	<ul style="list-style-type: none"> <input type="checkbox"/> Research projects for detecting and quantifying proteins, peptides, antibodies, and hormones cell signalling pathways in understanding of biological processes and diseases.
IMMUNOHISTOCHEMISTRY (IHC)	<ul style="list-style-type: none"> <input type="checkbox"/> Research on immunohistochemistry marker studies on tissues. <input type="checkbox"/> Visualizing and analysing the distribution and localization of proteins within tissues.
DIGITAL pH METER	<ul style="list-style-type: none"> <input type="checkbox"/> To measure hydrogen ion activity (acidity or alkalinity) in solutions. <input type="checkbox"/> For research to analyse the effects of pH on biological processes in a wide range of scientific disciplines.
CENTRIFUGAL MACHINE	<ul style="list-style-type: none"> <input type="checkbox"/> Fundamental instrument in research for separating substances of different densities in a sample. <input type="checkbox"/> For preparation of Platelet-rich Plasma (PRP) and others for research projects
CYTOLOGY	<ul style="list-style-type: none"> <input type="checkbox"/> Research projects to analyse cells collected from various body fluids, such as blood, saliva, to identify the presence of pathogens, abnormal cells, or substances indicative of a disease.
STEREOMICROSCOPE	<ul style="list-style-type: none"> <input type="checkbox"/> Examination of surface and measurements of soft tissue and hard tissue / samples. <input type="checkbox"/> Morphology and characteristics of specimens and research samples.
RESEARCH MICROSCOPE WITH IMAGE ANALYZER	<ul style="list-style-type: none"> <input type="checkbox"/> Dark ground microscopy <input type="checkbox"/> Phase contrast microscope <input type="checkbox"/> Polarized microscope <input type="checkbox"/> Scope image analyzer software



AREAS OF CONSULTANCY

SPECIALITY	CONSULTANCY SERVICES
ORAL MEDICINE AND RADIOLOGY	<ul style="list-style-type: none"> • Management: Mucosal Lesions, Oral Manifestations of Systemic Diseases • Advanced Imaging Techniques for: TMJ Disorders, Infectious Diseases of the Jaw, Traumatic Injuries, Oral Cancer Detection
ORAL AND MAXILLOFACIAL SURGERY	<ul style="list-style-type: none"> • Surgical Procedures: Transalveolar Extractions, Alveoloplasty, Minor Surgical Procedures, Corticobasal Implants • Management: Maxillofacial Traum, Maxillofacial Pathologies, TMJ Disorders • Advanced Training: Dental Implants, Facial Correction Surgeries, Microvascular Surgeries, Orthognathic Surgeries, Cancer Surgeries, Cleft Lip and Palate Repair Surgery, Robotic Surgeries, Plastic and Reconstructive Procedures, Facial Esthetics
PERIODONTOLOGY	<ul style="list-style-type: none"> • Nonsurgical Therapies: Root Planning, Local Drug Delivery • Surgical Therapies: Regenerative Periodontics, Laser Surgery, Electro Surgery, Microsurgery, Piezo Assisted Osseous Surgery, Periodontal Plastic Surgery, Guided Bone and Tissue Generation • OP Surgical Procedures: Frenectomy, Crown Lengthening, Gingivectomy • Advanced Surgical Treatments: Dental Implantology, Bone Reconstruction, Ridge Augmentation, Sinus Augmentation, Perio-Esthetic Procedures like Depigmentation and Gingival Contouring for Smile Design.
CONSERVATIVE DENTISTRY & ENDODONTICS	<ul style="list-style-type: none"> • Restorative Dentistry: GIC and Composite Restorations • Endodontics: Vital Pulp Therapy, Root Canal Treatment, Endodontic Retreatment • Aesthetic Dentistry: Aesthetic & Cosmetic Dentistry, Veneers & Laminates • Bleaching: Vital & Non-Vital Bleaching • Inlays, Onlays, Crowns, Post & Core • Advanced Techniques: Training in Rotary Files, Microscopic Endodontics • Surgical Endodontics: Management of badly mutilated teeth
ORTHODONTICS & DENTOFACIAL ORTHOPEDICS	<ul style="list-style-type: none"> • Orthodontic Treatments: Spacing in between teeth, Forwardly and/or backwardly placed upper and lower jaws, Sleep disorders, Impacted canines, Crowded teeth and Orthognathic & Dentofacial deformity • Advanced Training: Self-ligating braces, TAD assisted treatment, Lingual braces, Clear aligners



AREAS OF CONSULTANCY

SPECIALITY	CONSULTANCY SERVICES
PEDODONTICS & PREVENTIVE DENTISTRY	<ul style="list-style-type: none"> • Restorative Services: Restorations, Pulp Therapy, Crown Placement • Surgical Services: Extractions (Primary and Young Permanent Teeth), Manage Traumatic Dental Injuries, Minor and Major Oral Surgical Procedures, Full Mouth Rehabilitation under Conscious Sedation, Local and General Anaesthesia • Myofunctional Appliances, Management of Differently Abled Children, Behavior Management, Music and Aroma Therapy
PROSTHODONTICS	<ul style="list-style-type: none"> • Prosthetic Services: Maxillofacial Prosthesis, Implant Prosthodontics, All-On-Four Implant Prosthesis, State-of-the-Art Ceramic Lab • Treatment and Management: TMD Treatment & Management, Mucormycosis Rehabilitation • Technological Advancements: Digital Occlusal Analysis, Dental Technician Training Program • Full Mouth Rehabilitation: Rehabilitation of Completely Edentulous Patients, Partially Edentulous Patients, Full Mouth Rehabilitation with Fixed Prosthesis
PUBLIC HEALTH DENTISTRY	<ul style="list-style-type: none"> • Facilities: State-of-the-Art Dental Health Education Museum, Full-Fledged Tobacco Cessation Counselling Centre, Fully Equipped Mobile Dental Van with 2 Dental Chairs
ORAL PATHOLOGY & MICROBIOLOGY	<ul style="list-style-type: none"> • Facilities: External Biopsy Services, Well-Maintained Museum, Immunohistochemistry Facilities, Special Staining Techniques • Advanced Training: Stereomicroscope, Research microscopy with Image Analyser, Fluoride Electrode, ELISA, Deep Freezer (-20°C)

CONTACT INFORMATION

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