



TEERTHANKERMAHAVEER UNIVERSITY
 (Established under Govt. of U.P. Act No.30,2008)
 Delhi Road, Moradabad (U.P.)

PhD PROGRAMME

**SYLLABUS FOR DISCIPLINE-SPECIFIC COURSE
 CONSERVATIVE DENTISTRY AND ENDODONTICS**

Course Code: PDS240117	CONSERVATIVE DENTISTRY AND ENDODONTICS	L	T	P	C
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Objective:	The Training Program in Conservative Dentistry and Endodontics is structured to achieve the following five objectives: Knowledge Skills Attitude Communicative Skills and Ability Research				
Course Outcomes:					
Co 1:	To obtain a proper Clinical History a Methodical Examination of the patient, Perform Essential Diagnostic Procedures Order Relevant Laboratory Tests, interpret them, and arrive at a reasonable diagnosis of the condition of the pulp and periapical area.				
Co 2:	To perform with competence root canal treatment and minor surgical procedures. To treat both non-surgically and surgically the problems of the root canal and the periapical areas.				
Co 3:	To diagnose and interpret Clinical, Radiological, and Histopathological Diagnoses for comprehensive treatment planning of diseases for root canal and periapical regions.				
Co 4:	To be capable of providing care for Conservative Dentistry and Endodontics Patients.				
Co 5:	To Develop an attitude to adopt ethical principles in all aspects of Endodontic practice, professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste, creed, or religion of the patient.				
Course Content:					
Unit 1:	Dental caries- epidemiology, recent concept of etiological factors, pathophysiology, histopathology, diagnosis, caries activity tests, prevention of dental caries, and management - recent methods.				
Unit 2:	Development of rotary equipment - recent developments				
Unit 3:	Tissue management				
Unit 4:	Direct gold restorations				
Unit 5:	Recent advances in restorative materials and techniques				
Unit 6:	Failures of restorations and their management				
Unit 7:	Management of non-carious lesions				
Unit 8:	Minimal intervention dentistry				

Unit 9:	Recent advances in restoration of endodontically treated teeth and grossly mutilated teeth
Unit 10:	Hypersensitivity, theories, causes, and management
Unit 11:	Diagnostic procedure - recent advances and various aids
Unit 12:	Endodontic instruments and instrumentation detailed description and recent developments
Unit 13:	Recent developments in techniques of working length determination /cleaning and shaping of the root canal system
Unit 14:	Root canal irrigants and intra canal medicaments
Unit 15:	Recent advances in obturation
Unit 16:	Endodontic microbiology
Unit 17:	Traumatic injuries and management – endodontic treatment for young permanent teeth
Unit 18:	Pediatric endodontics - treatment of immature apex
Unit 19:	Endodontic surgeries
Unit 20:	Drugs and chemicals used in endodontics
Unit 21:	Endodontic emergencies and management
Unit 22:	Biologic response of pulp to various restorative materials and operative procedures
Unit 23:	Endodontic radiology- digital technology in endodontic practice
Unit 24:	Procedural errors in endodontics and their management
Unit 25:	Endodontic failures and retreatment
Unit 26:	Endo-perio interrelationship, endo-perio lesions and management
Unit 27:	Single visit endodontics, current concepts and controversies
Unit 28:	CAD-CAM & CAD-CIM in restorative dentistry
Unit 29:	Dental imaging and its applications in restorative dentistry (clinical photography)
Unit 30:	Principles of esthetics- a. Color b. Facial analysis c. Smile design d. Principles of esthetic integration e. Treatment planning in esthetic dentistry
Unit 31:	Multidisciplinary approach to endodontic situations
Unit32:	Resorption and its management
Unit 33:	Endodontic surgeries, recent developments in techniques and devices, endosseous endodontic implants
Unit 34:	Restoration of endodontically treated teeth & recent advances
Unit 35:	Geriatric endodontics
Unit 36:	Microscopes in endodontics

Unit 37:	Lasers in endodontics
Textbooks:	<ol style="list-style-type: none"> 1. Grossman's Endodontic Practice; V. Gopikrishna. 2. Sturdevant's Art and Science of Operative Dentistry; Andre V. Ritter, Lee W. Boushell, Ricardo Walter. 3. Cohen's Pathways of the Pulp; Ilan Rotstein. 4. Ingle's Endodontics; Ilan Rotstein and John I. Ingle. 5. Phillips' Science of Dental Materials; Arvind Shenoy & K Chandrasekharan Nair. 6. Textbook and Color Atlas of Traumatic injuries to the teeth; Jens O. Andreasen, Frances M. Andreasen & Lars Andreasen
Reference Books:	<ol style="list-style-type: none"> 1. Operative Dentistry- Modern Theory and Practice; M.A. Marzouk, A.L. Simonton & R.D. Gross. 2. Journal of American Dental Association International Endodontic 3. Journal 4. Australian Endodontic Journal