

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES
(Deemed to be University under section 3 of the UGC Act 1956)

Ph.D ADMISSION TEST (MR-PAT)

Ph.D. in Conservative Dentistry and Endodontics

Module 1: Basics in Endodontics

- 1.1 Diagnosis and Treatment Planning
- 1.2 Pulp and Periapical Disease
- 1.3 Microbiology and Immunology
- 1.4 Root canal Treatment: Access Cavity Preparation, Cleaning and Shaping, Obturation
- 1.5 Endodontic Surgery

Module 2: Advances in Endodontics

- 2.1 Management of endodontic emergencies
- 2.2 Endodontic Mishaps
- 2.3 Traumatic Injuries and their management
- 2.4 Advances in Dental Imaging

Module 3: Special Considerations in Endodontics

- 3.1 Vertical Root Fracture
- 3.2 Restoration of endodontically treated teeth
- 3.3 Endo Perio Lesions
- 3.4 Vital Pulp Therapy

Module 4: Basics of Operative dentistry

- 4.1 Occlusion
- 4.2 Dental Caries: Examination diagnosis and Treatment planning
- 4.3 Fundamentals in tooth preparation
- 4.3

Module 5: Esthetic Dentistry

- 5.1 Fundamentals of Adhesion
- 5.2 Composites and tooth preparation for composites
- 5.3 Additional esthetic procedures

Module 6: Restorative Dentistry

- 6.1 Instruments and Equipment for tooth preparation
- 6.2 Dental Amalgam
- 6.3 Gold and Indirect Restoration
- 6.4 Biomimetic Materials.

Suggested Readings:

- 1. Cohen's Pathway of the pulp - Louis H Berman, Kenneth M Hargreaves, Elsevier Publishing House, 12th edition
- 2. Sturdevant's Art and SCIENCE of Operative dentistry - Ritter, boushell & Walter, Elsevier Publishing House 7th edition
- 3. Summitts fundamental of operative dentistry - A contemporary Approach - Hilton TJ, Quintessence 4th edition
- 4. Ingle's Endodontics - Rotstein & Ingle, PMPH USA Ltd, 7th edition