

PMS COLLEGE

DENTAL SCIENCE & RESEARCH

CURRICULUM FOR INTERNS

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1. INTERNSHIP OUTCOME

The dental internship program aims at imparting education and training to Dental graduates of the institution. Internship is an integral part of BDS course and hence the B.D.S. degree shall be conferred only on satisfactory completion of internship. During the internship period the candidates will be posted in all the clinical departments of the institution. The internship program is compulsory and rotating as per the regulations prescribed for the purpose. During the internship period they will have to attend to the routine clinical activities of the department under the supervision of faculty members. The interns will also be posted in the Dental Casualty for attending to the emergency services of the institution and may also include rural postings at satellite dental clinics of the institution.

The curricular contents of internship training shall be based on Dental health needs of the society, Financial, material and manpower resources available for the purpose, National Dental Health Policy, Socio-economic conditions of the people in general, Existing Dental facilities at par with the primary health care concept for the delivery of health services, Task analysis of what dental graduates are expected to do in Dentistry in various practice settings. Private and Government aided epidemiological studies conducted to find out prevalence of different dental health problems, taking into consideration the magnitude of dental problems, severity of dental problems and social disruption caused by these problems.

Accordingly the institution frames the following objectives of internship program

- A. To facilitate reinforcement of learning and acquisition of additional knowledge:
 - a. Reinforcement of knowledge.
 - b. Techniques & resources available to the individual and the community: Social and cultural setting.
 - c. Training in a phased manner, from a shared to a full responsibility based on a comprehensive treatment plan.
- **B.** To facilitate the achievement of basic skills:
 - a. History taking.
 - b. Clinical Examination.

- c. Performance and interpretation of essential laboratory data.
- d. Data analysis and inference.
- e. Communication skills aimed at imparting hope and optimism in thepatient.
- f. Attributes for developing working relationship in the Clinical setting and Community team work.
- g. Development of Independent mind set in patient management.
- h. To actively involve in assisting post graduate students
- C. To facilitate development of sound attitudes and habits:
 - a. Emphasis on individual and human beings, and not on disease/symptoms.
 - b. Provision of comprehensive care, rather than fragmentary treatment
 - c. Continuing Dental Education.
- **D.** To facilitate understanding of professional and ethical principles including:
 - a. Rights and dignity of patients
 - b. Consultation with other professionals and referral to seniors/institutions.
 - c. Obligations to peers, colleagues, patients, families and Community.
 - d. Provision of free professional services in an emergent situation.
- **E.** To initiate individual and group action, leading to disease prevention and oral and dental health promotion, at the level of individuals, families and the Community.
- **F.** To maintain day to day record, in the form of a performance log book, thequantum of work done and any other assignment allotted to each intern by the department.

2. SCHEDULE

2.1 Internship Orientation

The Orientation Workshop shall cover Ethical issues, Patient Management, Public Relation issues, Emergency Care of the patients (including CPR), Medico-legal issues, Public Health and National Oral Health Policy. It shall be mandatory for the all the interns to attend the Orientation Workshop. Along with the internship orientation a set of three programs for capability enhancements schemes are organized in line.

- 1) Skill Enhancement for Emerging Dentists (SEED) SEED is an in-house conducted along with the orientation package, at the very beginning of internship. This two-day program provides an overview about the scope and basics of all specialties of dentistry for the budding interns. SEED guides the emerging dentists to choose their field of interest based on their innate talents whether it's clinical practice, choosing their area of specialization for higher studies or nurturing their research aptitude
- 2) Refresher Course for Interns (RCI) is spread over a period of few months scheduled without affecting their clinical posting hours. It is offered to all the interns with the motive toenable the young graduates to confidently and independently manage the patients and cases intheir daily practice

Department	Portions
Oral Medicine	Manifestations of Systemic Diseases in Oral Cavity
and Radiology	How to Manage Medically Compromised Patients
	Evaluation of the Periodontium
Periodontics	Periodontitis and its Clinical Manifestations
	Complications and Treatment Failures
Oral &	How to Critically Evaluate a Prescription
Maxillofacial Surgery	Basic Principles of Exodontia
	Complications and Management

Department	Portions
	Case selection for Removable, Fixed Appliance Therapy and Surgery
Orthodontics	Pediatric Orthodontics—Early diagnosis and treatment of malposed teeth.
Constant	Placement of Rubber Dam – Why and How with Techniques
Conservative Dentistry	Case selection for Pulpotomy, Pulpectomy, RCT, Endo-Perio Lesions
Deficisery	Diagnosis and Management of Apical Lesions
	Management of Deep Carious Lesions
	Clinical tips in fabrication of CD and RPD
Prosthodontics	Trouble shooting in CD and RPD
	Flexible Dentures
	Child Psychology and Management
Pedodontics	Space Maintainers and Techniques of Fabrication?
	Pediatric Endodontics
	How to select samples and conduct an Epidemiological Study
Public Health	Ethics in Dental Practice
Dentistry	How to motivate patients for Dental treatment
	Marketing and Ethical Practice
	Why Oral Pathology
	Diagnostic Tests for Oral Diseases
Oral Pathology	Development of Defects of Teeth
	Red and White Lesions of the Oral Cavity
	Forensic Odontology
	Basics of Laser, Laser Classification and Applications of Diode Laser-
Advanced Dental	Dental Implantology – Basics
Sciences	Dental Implantology – Clinical Steps
	Advanced Diagnostic tools and Clinical Interpretations of CBCT
	Digital Dentistry- CAD/CAM ,3D printing

Department of Periodontics

TOPIC	
Importance of Attached Gingiva in Periodontics & Implantology – How to assess	
Methods to increase attached gingiva	

Why Sub gingival scaling and its indications	
Why Flap Surgery and its indications	
How to perform a Flap Surgery	
Tooth Mobility and its Management	
Why Gingivoplasty & Gingivectomy	
How to perform Gingivoplasty, Gingivectomy, Gingival Depigmentation and Frenectomy	
Root Resection	
Intentional Replantation	
Periodontal diseases and its diagnosis	
Systemic diseases including Blood disorders	

Department of Pedodontics

TOPIC
Space maintainers-Indications & uses
Stainless steel crowns-Why, When, How
Serial Extractions- Why & When
Management of Tooth Avulsion
Pulpotomy & Pediatric Endodontics
Early Diagnosis of Malocclusion and Paediatric Orthodontics

Department of Conservative Dentistry & Endodontics

TOPIC
Early Diagnosis of Proximal and Root caries
Diagnosis of Pulpal Vitality- Methods and
Practical Applications
Pulpectomy and Pulpotomy-When and How
Steps in Root Canal Treatment
Use of Ca(OH)2 in clinical situations, Irrigation
Protocols in Endodontics, Obturation of the Pulp
space
Single Visit Endodontics
Non Surgical Management of pulpal lesion
Post Endodontic Restorations
Inlay and Onlay

Department of Orthodontics

TOPIC
How to clinically diagnose: Class I, II, III malocclusion
Cephalometric Tracing and Diagnosis
Myofunctional Appliances – Types, Uses & Applications
Fixed Appliance Therapy
Management of Simple Space Closures withRemovable and Fixed Appliances & Management of Mixed Dentition Cases

Case selection for Removable Appliance Therapy, Fixed Appliance Therapy and Surgical Management **Department of Prosthodontics**

TOPIC
Why & When Crowns and Bridges and types of Crowns & Bridges
Prosthodontic and Restorative Dentistry
Impression, Types and Manipulation
Different types of RPD – Trouble shooting and Management
Denture Duplication, Relining & Rebasing
Flexible Dentures
Tooth preparation for different types of Crowns and Bridges
Metal free ceramic restorations and Zirconia restorations
Implant Supported Complete Dentures
CAD/CAM Dentistry-Materials and Uses
3D Printing in Dentistry

Department of Oral & Maxillofacial Surgery

TOPIC
Tips for Atraumatic Extraction of teeth &
Different techniques of extraction
How to manage Bleeding during Extraction
How to manage Medically compromise patients
Minor Surgical procedures
Distinguish between Syncope and Anaphylaxis
Management of Different types of fractures

Department of Oral Medicine & Radiology

TOPIC
Diagnosis of Hard tissue diseases & anomalies
Diagnosis of Soft tissue diseases
How to diagnose systemic manifestations in oral cavity
When to prescribe Blood investigations
How to conduct a Dental checkup when referred
from medical specialties
When to prescribe X-rays for different clinical
situations – Periapical, Occlusal, Bitewing, OPG
Applications of CBCT in different clinical situations &
Why Analog vs Digital x-rays

Esthetic Dentistry

TOPIC
Smile Analysis – An Overview
Basic Cosmetic dental procedures
Veneers-Types & Preparation
Management of Discolored teeth & Teeth Whitening
Gingival De-pigmentation
Correction of Gummy Smile
Why Aligners and its application
Facial Aesthetics
Botox Fillers

2.2 Logbook and Quota

Students are provided with logbook for updating the clinical activities, procedures completed including advanced clinical activities in which they have attained skill development. Rotational department postings and attendance details are also recorded in Internship logbook. HOD/Teaching staff supervising the intern shall duly certify the work done by awarding grades. Complete record of all cases treated department wise to be prepared and presented in the Log book and case files at the time of completion of internship program.

Quota for all clinical procedures are allocated and students are encouraged to complete the quota thus giving an edge over their peers after completion of course and move on to next level of career development. The faculty members and mentors provide assistance so as to achieve the goal.

Continuing Dental Education:

CDE programs are conducted regularly by the institution and the interns have to attend a minimum of six CDEs to attain quota completion.

Detailed distribution of minimum expected work to be completed (Departmentwise):-

1. Oral Medicine & Radiology

The Intern during his/her posting in oral surgery shall perform the following procedures (minimumrequirement):

- a) Standardized examination of patients 5 cases
- b) Exposure to clinical, pathological laboratory procedures and biopsies / 5 cases
- c) Cytology
- d) Effective training in taking of Radiographs & processing: (Intra-oral) I.O, Full mouth and (Extra oral) E.O
- e) Cephalogram with interpretation 1
- f) Interpretation of X-rays 25 nos.
- g) Orientation to additional investigation techniques like CT Scan/MRI/ Sialography / USG/Doppler.

2. Oral and Maxillofacial surgery

- A. The Intern during his/her posting in oral surgery shall perform the following procedures (minimum requirement):
 - a) Extractions 50
 - b) Trans-alveolar extractions 2
 - c) Assisting / observing & other minor surgery 2
- B. The Intern shall perform the following on Cancer Patients (preferential)
 - a) Maintain file work
 - b) Do extractions for radiotherapy cases
 - c) Perform biopsies
 - d) Observe varied cases of oral cancers
- C. An intern shall have 15 days posting in emergency services of a dental/general hospital with extended responsibilities in emergency dental care in the wards. During this period he/she shallattend to emergencies under the direct supervision of oral surgeon during any operation. Emergencies to be assisted and observed:
 - a) Toothache
 - b) Trigeminal neuralgia
 - c) Bleeding from mouth due to trauma, post extraction, bleeding disorder or hemophilia
 - d) Airway obstruction due to fracture mandible and maxilla; dislocation of mandible; syncopeor vasovagal attacks; Ludwig's angina; tooth fracture; post inter maxillary fixation after General Anesthesia.
- E. Observes the work in I.C.U. with particular reference to resuscitation procedures.
- F. Conducts tutorials on medico-legal aspects including reporting on actual cases coming tocasualty.

3. Prosthodontics and Crown & Bridge

The interns during their internship posting in Prosthodontics shall perform the following procedures (minimum requirement):

- a) Complete denture (upper & lower) (Clinical Procedures & laboratory work) 3 Cases
- b) Removable Partial Denture (Clinical Procedures & laboratory work) 4 Cases
- c) Planned (cast) partial denture (designing on model only) 1 Case
- d) Learning use of Face bow and Semi anatomic articulator technique
- e) Management of cases but not restricted to the following; anterior crowns, maxillofacialprosthesis, TMD etc.
- f) Miscellaneous-like Reline/Rebasing / Overdenture/ repairs of Denture/immediate completedenture.

4. Periodontics

An intern shall perform the following procedures (minimum requirement):

- A. Prophylaxis 10 cases
 - B. Assist / observe or perform:
 - a) Flap Operation 2 cases
 - b) Root Planing 1 case
 - c) Curettage 1 case
 - d) Gingivectomy 1 case
 - e) Perio-Endo cases 1 case

5. Conservative Dentistry & Endodontics

To facilitate reinforcement of learning and achievement of basic skills, the interns shall perform at least the following procedures independently or under the guidance of supervisors (minimum requirement):

- a) Routine Restoration work 40 cases
- b) Restoration of extensively mutilated teeth 2 cases
- c) Inlay and onlay preparations 1 case
- d) Use of tooth colored restorative materials 4 cases
- e) Treatment of discolored vital and non-vital teeth 1 case each
- f) Management of pulpless, single-rooted teeth without periapical lesion 1 case
- g) Management of acute dentoalveolar Infections 4 cases / as per availability
- h) Management of pulpless, single-rooted tooth with periapical lesion 1 case
- i) Non-surgical management of traumatised teeth during formative period. 1 case

6. Paediatric and Preventive Dentistry

During their posting in Paediatric Dentistry the intern shall perform (minimum requirement):

- a) Topical application of fluorides 5 cases
- b) Oral prophylaxis 10 cases
- c) Restorative procedures of carious deciduous teeth in children 10 cases
- d) Pulpotomy / Pulpectomy 1 case
- e) Management of traumatized permanent anterior teeth (RCT) 1 case
- f) Fabrication and insertion of Preventive /Interceptive orthodontic appliances 2 cases
- g) Extractions 30 cases
- h) Minor oral surgical procedures
- i) (Surgical exposure of unerupted teeth, mucocoele excision, frenectomy etc) 1 case
- i) Management of Dento alveolar fractures 1 case
- k) Management of Special children 2 cases
- l) Comprehensive treatment including case discussion, maintenance of clinical records, Primary, secondary & tertiary levels of prevention including diet recording and diet counselling 1 case.

7. Oral Pathology and Oral Microbiology including Forensic Odontology

An intern shall perform the following (minimum requirement):

- a) History-recording and clinical examination 5 cases
- b) Blood. Urine and Sputum examination 5 cases
- c) Exfoliative Cytology and smears study 2 cases
- d) Biopsy -Laboratory procedure & reporting 1 case
- e) Preparation of ground section 2

Interns may also be posted in the Forensic Medicine Department of the attached Medical College.

8. Orthodontics and Dentofacial Orthopaedics

A. an intern shall observe the following procedures during their posting in Orthodontics (minimumrequirement):

- a) Detailed diagnostic procedures 5 patients
- b) Laboratory techniques including wire-bending for removable appliances. Soldering and processing of myo-functional appliances.
- c) Treatment plan options and decisions.
- d) Making of bands, bonding procedures and wire insertions.
- e) Use of extra oral anchorage and observation of force values.
- f) Retention.
- g) Observe handling of patients with oral habits causing malocclusions.
- B. An intern shall do the following laboratory work (minimum requirement):
 - a) Wire bending for removable appliances and space-maintainers including welding andheat treatment procedure 5 cases
 - b) Soldering exercises, banding & bonding procedures 2 cases
 - c) Cold-cure and heat-cure acrylisation of simple orthodontic Appliances 5 cases

C. An Intern shall carry out the following clinical work (minimum requirement):

- a) Diagnosis and treatment plan including cephalometric analysis 5 cases
- b) Fabrication of removable appliances with different problems 4 cases
- c) Orthodontic impressions and bite-recordings. 5 cases

9. Public Health Dentistry

- 1. The intern shall conduct health education sessions for individuals and groups on oral health, public health nutrition, behavioural sciences, environmental health, preventive dentistry and oral epidemiology.
- 2. They shall conduct a short-term epidemiological survey in the community or in the alternate, participate in the planning and methodology
- 3. They shall arrange effective demonstration of (minimum requirement):
 - a) Preventive and interceptive procedures for prevalent dental diseases.
 - b) Mouth-rinsing and other oral hygiene demonstrations 5 cases
 - c) Tooth brushing techniques 5 cases
- 4. Conduction of oral health education programmes at (minimum requirement):
 - a) School setting 2
 - b) Community setting 2
 - c) Adult education programmes 2
- 5. Preparation of Health Education materials 5
- 6. Exposure to team concept and National Health Care systems:
 - a) Observation of functioning of health infrastructure.
 - b) Observation of functioning of health care team including multipurpose; workers (male andfemale), health educators and other workers.
 - c) Observation of atleast one National Health Programme.
 - d) Observation of inter linkages of delivery of oral health care with Primary Health Care and visit to a water treatment plant.

2.3 Competitive Examination

Students are given coaching for preparation in post graduate entrance exams in a systematic manner. Clinical and Non Clinical subjects are covered along with providing with study materials and library access to vast collection of books, journal subscriptions, backlog journals thus equipping them to perform well in competitive exams.

2.4 Career Guidance

Students are provided with Career guidance counselling so as to choose their subject of choice for further studies, certification programmes, post- graduation in specialties of choice and other career options after completion of course.

Program 1	In-house Career guidance	Towards beginning of				
	program	internship				
Program 2	Career Guidance program	Towards end of internship				

2.5 Finishing school Program

It is a special clinical training initiative with hands on offered to interested candidates, to enable them to sharpen their clinical skills. Senior faculties monitor the theory classes followed by demonstration and handson experience on clinical patients even an advanced dental area like implants, lasers and advanced modalities in various specialties like smile design, aesthetic dentistry, digital photography. Workshops on CBCT and Forensic Odontology are also provided during the tenure.

2.6 Leave

The internship program comprises of rotational training for a period of 365 days as stipulated by Dental Council of India. The students can avail leave under situations such as medical ground, emergencies. The Leave and Extension of service is calculated as per provision of Kerala University of Health Sciences.

2.7 Migration/Transfer

Migration or transfer to and from another institution can be accorded in unavoidable situation after getting approval and NOC from DCI. For applying; acceptance from both institutions are compulsory and cannot be carried over and 365 days has to be completed in the migrating institution.

3. POSTINGS

3.1 RURAL CLINIC POSTING

Interns are provided with rural clinic posting in rotation basis at SAF Hospital, Vattappara for understanding of clinical scenario among rural population and develop skills to cater to the people of different strata of society. They are also provided with oppurtunity to work with private practitioners to get industry experience and gain patient management expertise in non academic environment.

3.2 SATELLITE CLINIC POSTING

Interns are provided with clinical posting in satellite clinic of the institution to train them to handle patient in a clinical surrounding rather than academic institution.

3.3 MEDICAL OUT PATIENT DEPARTMENT POSTING

Students undergoing training in the institution are posted in the Medical Outpatient Department to have an updated knowledge in medical emergencies and other medical conditions they can come across during routine dental practice. Emergency medicine and Medical management skills are acquired through posting in St. Johns Medical Mission Hospital.

3.4 TOBACCO CESSATION CLINIC POSTING

Interns are posted in the Institutional Tobacco Cessation Clinic and are trained to provide tobacco cessation counseling to patient under supervision. Students are also trained to estimate CO level using the state of the art CO monitor equipment available in the department. The interns are also provided assistance to start tobacco cessation clinic and counseling to patients after passing out of the institution.

4. CAPABILITY ENHANCEMENT -

Co-curricular Programs & Extra Curricular Programs

Institution implements the following Co-curricular programs for junior residence

- 4.1 Inculcating social responsibilities & values by commemorating days of national and international importance
- 4.2 COMMUNITY OUTREACH PROGRAMME
- 4.3 LIFE SKILLS ENRICHMENT SCHEMES
- 4.3.1 TIME MANAGEMENT AND PLANNING SKILLS
- 4.3.2 FINANCIAL MANAGEMENT SKILLS
- 4.3.3 COMMUNICATION SKILLS
- 4.3.4 ORGANIZATIONAL SKILLS
- 4.3.5 CONTINUED SELF- DEVELOPMENT SKILLS
- 4.4 ADD ON COURSES
- 4.4.1 RESEARCH METHODOLOGY
- 4.4.2 BIOSTATISTICS
- 4.4.3 BASIC LIFE SUPPORT
- 4.4.4 HOSPITAL INFECTION CONTROL PROTOCOL
- 4.4.5 EXODONTIA
- 4.4.6 PRACTICE MANAGEMENT
- 4.4.7 ESTHETICS WITH COMPOSITES
- 4.4.8 PEDIATRIC ENDODONTICS
- 4.4.9 STAINLESS STEEL CROWNS
- 4.4.10 BASIC RADIOGRAPHIC DIAGNOSIS
- 4.5 PHYSICAL AND MENTAL HEALTH RECREATIONAL SCHEMES
- 4.5.1 YOGA AND MEDITATION
- 4.5.2 GYMNASIUM
- 4.5.3 SWIMMING POOL
- 4.5.4 FOOTBALL, VOLLEY BALL
- 4.5.5 CRICKET NET PRACTICE SESSIONS

4.6 ACADEMIC RESEARCH PROJECT

Students are encouraged to take up research projects, short study, paper and poster presentations in various State and National Conferences conducted by IDA and different Specialties. Students are assisted by concerned faculty members and support from mentor staff personnel. Publications in various journals are done with collaboration and guidance of faculty members from clinical science and Basic science departments which equip them to take further their interest in researchand Academic aptitude.

4.7 INDUSTRIAL VISIT

Interns are provided with Industrial visit to get a through and in-depth knowledge of back end processes involved in dental procedures. Ceramic laboratories, Prosthetic Laboratories, Animal house, Cell Culture, Bio technology centers are included in the visit itinerary.

Sl.No	Purpose	Place
1.	Study Visit	Herbal Garden
2.	Study Visit	Animal House
3.	Study Visit	Dentcare Lab
4.	Study Visit	CAD CAM Lab

4.8 OUTREACH PROGRAMMES

The institution regularly conducts community outreach programs with active participation of Interns; which aims to help, uplift, and support those who are deprived of certain services and rights. It involves providing learning, social planning, health support, and other projects for their welfare. Outreach program in collaboration with prestigious organizations like Regional Cancer Center, various NGOs and Government organizations is being arranged for students undergoing internship will open up tremendous opportunities during and after completion of the tenure.

5. INTERNSHIP CLINICAL ATTRIBUTES

The institution frames all possible opportunities to develop graduate attributes during the course study. The broader aspects of skills are achieved by conducting various training programs to improve the attributes. The urge to include graduate attributes in the curriculum, has led to the incorporation of extensive training programs in the study course of the junior residents.

5.1 EVALUATION OF DENTAL GRADUATE ATTRIBUTES

The Institution has developed a framework to meet the intended learning outcome during the course. Through this system the institution is catering attributes of theoretical knowledge, clinical skills and life skills for the graduates. The purpose of conducting this evaluation is to realize the qualitative and quantitative imbibement of mastery in the Undergraduate Curriculum by the Junior residents.

GOALS

To assess the Basic knowledge of the subjects in general

To evaluate the Clinical Dexterity

Emergency situation management skills

Level of Communication skills

To evaluate the Professional commitment

Professional ethics

Clinical and team skills

Level of interest in self-improvement

Respecting patient's confidentiality

Commitment to lifelong learning.

5.2 SCALE OF EVALUATION

Scores in the range of 7-8 indicate excellent performance

Scores in the range of 5 and above indicate above average performance

Scores in the range of 2 and above indicate average performance

Scores below 2 show poor / not acceptable performance

5.3 EVALUATION PERFORMA

CLINICAL ATTRIBUTE ASSESSMENT FORM OF GRADUATES

Name of the House surgeon: Batch:

On a scale of 1-10 grade the outgoing graduate

Have the graduate attained the following skills	1	2	3	4	5	6	7	8	9	10
Basic knowledge of subject	0	\bigcirc								
Clinical dexterity	0	\bigcirc								
Emergency situation management	0	\bigcirc	\bigcirc			\bigcirc	\bigcirc			
Communication skill	0	\bigcirc								
Professional commitment	0	\bigcirc								
Professional ethics	0	\bigcirc								
Clinical and team skills	0	\bigcirc								
Interestinselfimprovement	0	\bigcirc								
Respecting patients' confidentiality	0	\bigcirc								
Committed to lifelong learning	0	\bigcirc								

Grade: **7-8** Excellent **5-6** above average **2-4** Average **Below 2** poor/not acceptable