

SANKALCHAND PATEL UNIVERSITY
FACULTY OF DENTAL SCIENCES
NARSINHBHAI PATEL DENTAL COLLEGE & HOSPITAL
CURRICULUM OF INTERNSHIP FOR BDS STUDENTS

Faculty of Dental Sciences, Narsinhbhai Patel Dental College & Hospital under Sankalchand Patel University, Visnagar will enroll the BDS students who have passed their BDS 4th year university examination for one-year compulsory rotatory internship. The curriculum of internship will be as per the BDS course regulation of DCI along with its revisions/amendments. The proposed scheme compulsory rotatory internship is given below.

CURRICULUM OF INTERNSHIP PROGRAMME.

1. The duration of Internship shall be one year.
2. All parts of internship shall be done in a Dental College duly recognized/approved by the Dental Council of India for the purpose of imparting education and training to Dental graduates in the country.
3. The Interns shall be paid stipendiary allowance during the period of an Internship not extending beyond a period of one year.
4. The internship shall be compulsory and rotating as per the regulations prescribed for the purpose.
5. The degree- BDS shall be granted after completion of internship.

Determinants of Curriculum for internship for Dental Graduates:

The curricular contents of internship training shall be based on:

- i Dental health needs of the society.
- ii Financial, material and manpower resources available for the purpose.
- iii National Dental Health Policy.
- iv Socio-economic conditions of the people in general.
- v Existing Dental as also the primary health care concept, for the delivery of health services.
- vi Task analysis of what graduates in Dentistry in various practice settings, private and government service actually perform.
- vii Short study and 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. Presentation of research findings in a conference and/or publication in a scientific journal.

Objectives:

- A. To facilitate reinforcement of learning and acquisition of additional knowledge :-
 - 1) Reinforcement of knowledge.
 - 2) Techniques & resources available to the individual and the community; Social and cultural setting.
 - 3) Training in a phased manner, from a shared to a full responsibility.
- B. To facilitate the achievement of basic skills: attaining competence vs. maintaining competence in:-
 - 1) History taking.
 - 2) Clinical Examination.
 - 3) Performance and interpretation of essential laboratory data.
 - 4) Short study, data analysis and inference.
 - 5) Communication skills aimed at imparting hope and optimism in the patient.
 - 6) Attributes for developing working relationship in the Clinical setting and Community team work.
- C. To facilitate development of sound attitudes and habits:-
 - 1) Emphasis on individual and human beings, and not on disease/symptoms.
 - 2) Provision of comprehensive care, rather than fragmentary treatment.
 - 3) Continuing Dental Education and Learning of accepting the responsibility.
- D. To facilitate understanding of professional and ethical principles:-
 - 1) Right and dignity of patients.
 - 2) Consultation with other professionals and referral to seniors/institutions.
 - 3) Obligations to peers, colleagues, patients, families and Community.
 - 4) Provision of free professional services in an emergent situation.
- E. To initiate individual and group action, leading to disease prevention and dental health promotion, at the level of individuals' families and the community.

Content (subject matter)

The compulsory rotating paid Dental Internship shall include training in Oral Medicine & Radiology; Oral & Maxillofacial Surgery; Prosthodontics; Periodontics; Conservative Dentistry; Pedodontics; Oral Pathology & Microbiology; Orthodontics and Community Dentistry.

General Guidelines:

1. It shall be task-oriented training. The interns should participate in various institutional and field programmes and be given due responsibility to perform the activities in all departments of the Dental Colleges and associated Institutions.
2. To facilitate achievement of basic skills and attitudes the following facilities should be provided to all dental graduates:
 - i. History taking, examination, diagnosis, charting and recording treatment plan of cases.
 - ii. Presentation of cases in a group of Seminar.
 - iii. Care and sterilization of instruments used.
 - iv. Performance and interpretation of essential laboratory tests and other relevant investigations.
 - v. Short study, data analysis and inference.
 - vi. Proper use of antibiotics, anti-inflammatory and other drugs, as well as other therapeutic modalities.
 - vii. Education of patients, their relatives and community on all aspects of dental health care while working in the institution as also in the field.
 - viii. Communication aimed at inspiring hope, confidence and optimism.
 - ix. Legal rights of patients and obligations of dental graduate under forensic jurisprudence.

1. Oral Medicine & Radiology:

1) Standardized examination of patients	25 Cases
2) Exposure to clinical, pathological laboratory procedures and biopsies.	5 Cases
3) Effective training in taking of Radiographs:	2 Full mouth
(Intra-oral) I.O. (Extra oral) E.O.	1
Cephalogram	1
4) Effective management of cases in wards	2
5) Forensic age and gender determination	10 per student

2. Oral and Maxillofacial surgery

1. The Internees during their posting in oral surgery shall perform the following procedures:

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| 1. | Extractions | 50 |
| 2. | Surgical extractions | 2 |
| 3. | Impactions | 2 |
| 4 | Simple Intra Maxillary Fixation | 1 |
| 5 | Cysts enucleations | 1 |
| 6. | Incision and drainage | 2 |
| 7. | Alveoloplasties, Biopsies & Frenectomies, etc. | 3 |
2. The Internees shall perform the following on Cancer Patients:
 1. Maintain file work.
 2. Do extractions for radiotherapy cases.
 3. Perform biopsies.
 4. Observe varied cases of oral cancers.
 3. The internees 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 they shall attend to all emergencies under the direct supervision of oral surgeon during any operation:
 1. Emergencies.
 - (i) Toothache; (ii) trigeminal neuralgia; (iii) Bleeding from mouth due to trauma, post extraction, bleeding disorder or haemophyilia; (iv) Airway obstruction due to fracture mandible and maxilla; dislocation of mandible; syncope or vasovagal attacks; Ludwig's angina; tooth fracture; post intermaxillary fixation after general Anaesthesia.
 2. Work in I.C.U. with particular reference to resuscitation procedures.
 3. Conduct tutorials on medico-legal aspects including reporting on actual cases coming to casualty. They should have visits to law courts.

3. Prosthodontics and Crown & Bridge

The dental graduates during their internship posting in Prosthodontics shall make:-

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| 1. Complete denture (upper & lower) | 2 |
| 2. Removable Partial Denture | 4 |
| 3. Fixed Partial Denture | 1 |
| 4. Planned cast partial denture | 1 |
| 5. Miscellaneous-like reline/over-denture/repairs of Maxillofacial Prosthesis | 1 |
| 6. Learning use of Face bow and Semi anatomic articulator technique | |
| 7. Crowns | |
| 8. Introduction of Implants | 1 |

4. Periodontics

A. The dental graduates shall perform the following procedures

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| 1. Prophylaxis | 15 Cases |
| 2. Flap Operation | 2 Cases |
| 3. Root Planning | 1 Case |
| 4. Curettage | 1 Case |
| 5. Gingivectomy | 1 Case |
| 6. Perio-Endo cases | 1 Case |

B. During their one week posting in the community health centers, the interns shall educate the public in prevention of Periodontal diseases.

C. Conducting teaching modules (demonstration) to train the students in the use of LASER.

D. Construction of informative Models and Presentations on conventional and advanced procedures in Periodontology.

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:

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| 1. Restoration of extensively mutilated teeth | 5 Cases |
| 2. Inlay and onlay preparations | 1 Case |
| 3. Use of tooth coloured restorative materials | 4 Cases |
| 4. Treatment of discoloured vital and non-vital teeth | 1 Case |
| 5. Management of dentoalveolar fracture | 1 Case |
| 6. Management of pulpless, single-rooted teeth without periapical lesion | 4 Cases |
| 7. Management of acute dento alveolar Infections | 2 Cases |
| 8. Management of pulpless, single-rooted teeth with periapical lesion. | 1 Case |
| 9. Non-surgical management of traumatised teeth during formative period. | |

6. Pedodontics and Preventive Dentistry

During their posting in Pedodontics the Dental graduates shall perform:

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| 1. Topical application of fluorides including varnish | 5 Cases |
| 2. Restorative procedures of carious deciduous teeth in children. | 10 Cases |
| 3. Pulpotomy | 2 Cases |
| 4. Pulpectomy | 2 Cases |
| 5. Fabrication and insertion of space maintainers | 1 Case |
| 6. Oral habit breaking appliances | 1 Case |

7. Oral Pathology and Microbiology

The interns shall perform the following:

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| 1. History-recording and clinical examination | 5 Cases |
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| 2. Blood, Urine and Sputum examination | 5 Cases |
| 3. Exfoliative Cytology and smears study | 2 Cases |
| 4. Biopsy- Laboratory Procedure & reporting | |

8. Orthodontics and Dentofacial Orthopedics

- A. The interns shall observe the following procedures during their posting in Orthodontics:
1. Detailed diagnostic procedures for 5 patients
 2. Laboratory techniques including wire-bending for removable appliances, soldering and processing of myo-functional appliances.
 3. Treatment planning options and decisions.
 4. Making of bands, bonding procedures and wire insertions.
 5. Use of extra oral anchorage and observation of force values.
 6. Retainers.
 7. Observe handling of patients with oral habits causing malocclusions.

The dental graduates shall do the following laboratory work:-

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| 1. Wire bending for removable appliances and space maintainers including welding and heat treatment procedure. - | 5 Cases |
| 2. Soldering exercises, banding & bonding procedures - | 2 Cases |
| 3. Cold-cure and heat-cure acrylisation of simple Orthodontic appliances - | 5 Cases |

9. Public Health Dentistry

1. The interns shall conduct health education sessions for individuals and groups on oral health public health nutrition, behavioural sciences, environmental health, preventive dentistry and 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 demonstrations of:
 - 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
 - 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 and female, health educators and other workers.
 - c. Observation of at least one National Health Programme:-

- d. Observation of inter linkages of delivery of oral health care with Primary Health care. Mobile dental clinics, as and when available, should be provided for these teachings.
- 7. Special training of students at a Tobacco Cessation Centre.

10. Elective Posting

The Interns shall be posted for 15 days in any of the dental departments of their choice mentioned in the foregoing.

Organisation of content:

The Curriculum during the 4 years of BDS training is subject based with more emphasis on learning practical skills. During one year internship the emphasis will be on competency-based, community oriented training. The practical skills to be mastered by the interns along with the minimum performance level are given under the course content of different departments of Dental Education. The supervisors should ensure that proper facilities are provided in all departments and attached institutions for their performance.

Specification of teaching activities:

Didactic lectures are delivered during the four years training in BDS. These shall be voided during the internship programme. Emphasis shall be on chair-side teaching, small group teaching and discussions tutorials, seminars, ward posting, laboratory posting, field visits and self-learning.

Use of Resource Materials:

Overhead projectors, slide projectors, film projectors, charts, diagrams, photographs, posters, specimens, models and other audio-visual aids shall be provided in all the Dental Colleges and attached institutions and field area. If possible, television, video and tapes showing different procedures and techniques to be mastered by the interns should be provided.

Evaluation

1. Formative Evaluation:

Day-to-day assessment of the interns during their internship posting should be done. The objective is that all the interns must acquire necessary minimum skills required for carrying out day-to-day professional work competently. This can be achieved by maintaining records and performance data book by all interns. This will not only provide demonstrable evidence; of the processes of training but more importantly, of the interns own acquisition of competencies as related to performance. It shall form a part of formative evaluation and shall also constitute a component of final grading of interns.

2. Summative Evaluation:

It shall be based on the observation of the supervisors of different departments and the records and performance data book maintained by the interns. Grading shall be done accordingly.

II. Rural Services

In the rural services, the student will have to participate in-

1. Community Health Monitoring programmes and services which include Preventive, Diagnostic and corrective procedures
2. To create educational awareness about dental hygiene and diseases.
3. Conduction of Oral Health Education Programmes at –
 - i. School Setting - 5
 - ii. Community Setting - 5
 - iii. Adult Education Programme - 5
4. Compulsory setup of satellite clinics in remote areas - 1
5. Lectures to create awareness and education in public forums about the harmful effects of tobacco consumption and the predisposition to oral cancer – two Lectures per student.

Period of Postings

Sl. No.	Specialty	Period of Posting
1	Oral Medicine & Radiology	1 Month
2	Oral & Maxillofacial Surgery	1 ½ Months
3	Prosthodontics and Crown & Bridge	1 ½ Months
4	Periodontics	1 Month
5	Conservative Dentistry & Endodontics	1 Month
6	Pedodontics	1 Month
7	Oral Pathology and Microbiology	15 Days
8	Orthodontics and Dentofacial Orthopedics	1 Month
9	Public Health Dentistry / Rural Services / Tobacco Cessation Centre	3 Months
10	Elective	15 Days