

INSTITUTIONAL ADD ON COURSES



GOVERNMENT DENTAL COLLEGE & HOSPITAL NAGPUR

Government Medical College Campus, Medical Square, Ajni Road,
Nagpur, 444003, Maharashtra, India

INTRODUCTION

Dentistry in India and across the globe has seen tremendous development in the last few decades. Achieving academic brilliance through prescribed curriculum is not enough these days to make students a good oral health care provider. But the curriculum coupled with high quality training in other add on courses can be leveraging the talent and innovative capabilities of the budding professionals to meet the needs of the contemporary dynamic dental environment thus making the student more practice ready.

These add on courses can supplements students learning and enhances their preparedness to meet the challenges of professional life. These programmes enable the students to acquire a more holistic perspective and thus have better understanding of issues present-day challenges and also facilitate the students to gain and develop innovative and creative skills through a wide array of course offerings.

Govt Dental college and Hospital offer well planned and career oriented add on courses in 5 specialities. These courses are beyond the curriculum. These courses will help undergraduate students to feel confident in their dental practice.

Need based learning: **These courses focus on the competency-based learning.**

AIM AND OBJECTIVES

Aim: To equip students with deeper knowledge and clinical experience which provide the essential skill set that one needs to for enhancement of their dental practice.

Objectives:

1. To empower students with the fundamental knowledge of area of Specialization.
2. To allow students to go beyond their curriculum and facilitate them to extend their interest level in each area.

Following are the Institutional Add on Courses.

COURSE I: AESTHETIC DENTISTRY

(Run by Dept of Conservative Dentistry & Endodontics)

COURSE II: FORENSIC ODONTOLOGY

(Run by dept of Oral Pathology & Microbiology)

COURSE III: ORAL IMPLANTOLOGY

(Run by Dept of Oral Surgery/ Prosthodontics/Periodontology)

COURSE IV: ETHICS AND BEHAVIOURAL SCIENCES

(Run by Dept of Public Health Dentistry and Dept of Pedodontics)

Course V: DIGITAL DENTISTRY

(Run by Dept of Prosthodontics)

Course I:
AESTHETIC DENTISTRY



**ADD- ON COURSE
IN
AESTHETIC DENTISTRY
(for Interns)**



**Department of Conservative
Dentistry and Endodontics**

**Government Dental College and Hospital,
Nagpur**

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COURSE I: AESTHETIC DENTISTRY

(Run by Dept of Conservative Dentistry & Endodontics)

This Add on Course is run by the Department of Conservative Dentistry & Endodontics for upliftment of knowledge & skills of procedures related to Aesthetic Dentistry Programme.

Introduction: Aesthetic dentistry the art and science of dentistry applied to create or enhance beauty of individual within functional and physiological limits. Aesthetic Dentistry is gaining more popularity since last decade. It is better that undergraduate students should understand the philosophy and scientific knowledge of the aesthetic dentistry.

Objectives

- To be able to perform aesthetic procedures with an improved expertise in routine dental practice.
- To be able to correctly assess the clinical condition, deliberate the treatment options and devise the treatment plan for anterior teeth aesthetics.
- After the course the students will have the confidence and skill to efficiently perform the aesthetic procedures and document the same with a high level of expertise.
- The course will lay down strong foundation to enhances the level of knowledge, increases the ability to correctly diagnose, design the treatment and understand how to properly document the case thereby increasing the predictability of the outcome.

Curriculum

1. Introduction and scope of aesthetic dentistry
2. Anatomy & physiology of smile
3. Role of the colour in aesthetic dentistry
4. Simple procedures (rounding of central incisors to enhance aesthetic appearance)
5. Bleaching of teeth
6. Veneers with various materials
7. Preventive and interceptive aesthetics
8. Ceramics
9. Simple gingival contouring to enhance the appearance
10. Simple clinical procedures for BDS students

AESTHETIC DENTISTRY

A dental treatment that improves the appearance of a patient's teeth and supporting structures. It has evolved covering many new procedures and dental materials that are constantly evolving.

MODULE 1: COMPOSITE RESIN RESTORATIONS

Dental Material Science
Isolation
Composite restorations
Class I, II and V design for composites
Sandwich technique in deep cavity cases
Clinical procedure

MODULE 2: DIASTEMA CLOSURE

Dental Material Science
Isolation
Midline diastema closure
Clinical procedures

MODULE 3: BLEACHING

Dental Material Science
Bleaching
Types of bleaching
Precautions and Instructions
Clinical procedure

MODULE 4: POST AND CORE

Dental Material Science
Post and core (Aesthetic post)
Clinical procedure



BENEFICIARIES...



Sometimes, even a slight change in smile may help project positive feelings of self-confidence and high personal esteem. In the current times, dentistry has moved more towards esthetics and cosmetic needs. Cosmetic dentistry remains an ever-developing field in dentistry with the introduction of various new techniques and materials.

At this day and age, advanced dentistry techniques can make a huge difference by using a combination of science and artistry.

The department of Conservative Dentistry and Endodontics, Government Dental College and Hospital, Nagpur is glad to introduce the add-on course in this branch of esthetic and cosmetic dentistry, which helps in providing state-of-the-art treatment for the patients as well as enhancing the clinician's skill and excellence with the help of advanced technologies and materials.



TEAM CONS AND ENDO

**COURSE II:
FORENSIC
ODONTOLOGY**

FORENSIC ODONTOLOGY

ADD- ON COURSE

II & III B.D.S.



DEPARTMENT OF ORAL PATHOLOGY &
MICROBIOLOGY

GOVERNMENT DENTAL COLLEGE &
HOSPITAL, NAGPUR

COURSE II: FORENSIC ODONTOLOGY

(Run by dept of Oral Pathology & Microbiology)

This course is run by the Department of Oral Pathology & Microbiology to make students aware about application of dental evidence in forensic cases.

Introduction: Forensic is derived from the Latin word forum, which means 'court of law.' Odontology literally implies 'the study of teeth.' Forensic odontology, therefore, has been defined by the Fédération Dentaire Internationale (FDI) as "that branch of dentistry which, in the interest of justice, deals with the proper handling and examination of dental evidence, and with the proper evaluation and presentation of dental findings.

Objectives

- Have sound knowledge of the theoretical and practical aspects of forensic odontology.
- Have an awareness of ethical obligations and legal responsibilities in routine practice and forensic casework.
- Be competent to recognise forensic cases with dental applications when consulted by the police, forensic pathologists, lawyers and associated professionals.
- Be competent in proper collection of dental evidence related to cases of identification, ethnic and sex differentiation, age estimation and bite marks.
- Be able to assist in analysis, evaluation, and presentation of dental facts within the realm of law.

Curriculum

1. Introduction to forensic dentistry: Definition and history, Recent developments and future trends
2. Overview of forensic medicine and toxicology: Cause of death and post-mortem changes, Toxicological manifestations in teeth and oral tissues
3. Dental identification: Definition, Basis for dental identification, Post-mortem procedures, Dental record compilation and interpretation, Comparison of data, and principles of report writing, Identification in disasters and handling incinerated remains, Post-mortem changes to oral structures
4. Maintaining dental records: Basic aspects of good record-keeping, Different types of dental records, Dental charts, Dental radiographs, Study casts, Denture marking, Photographs, Dental notations
5. Age estimation
6. Sex differentiation
7. Ethnic variations ('racial' differences) in tooth morphology
8. Bite mark procedures: Definition and classification, Basis for bite mark investigation , Bite mark appearance, Macroscopic and microscopic ageing of bite marks, Evidence collection from the victim and suspect of bite mark, Analysis and comparison, Principles of report writing, Animal bite investigation
9. Dental DNA methods: Importance of dental DNA evidence in forensic investigations, Types of DNA and dental DNA isolation procedures, DNA analysis in personal identification, Gene-linked sex dimorphism, Population genetics

DURATION-20 hrs
[THEORY- 10 HOURS, PRACTICAL-10 HOURS]
[Every first & third Wednesday of Month, Excluding Holidays]

TOPIC	THEORY	PRACTICAL
Introduction to Forensic Odontology	Visual Method, Personal/ Medical Information: Height, Weight Etc, Specific Information: Scars Tattoo, Birth Marks Implants Etc, Radiological Information, Clothing, Personal Documentation, Content of Books, Bags, Jewellery, Dental Identification, Finger Prints, Foot Prints & DNA Profiling	Visual Method, Personal/ Medical Information: Height, Weight Etc, Specific Information: Scars Tattoo, Birth Marks Implants Etc,
Dental Identification procedure	Antemortem post-mortem records, radiographs clinical photos, laboratory prescriptions	Radiological demonstration & cast comparison of antemortem & postpartum records
Identification in disasters	Disaster victim identification interpole form & its applications	Demonstrations & applications of Disaster victim identification
Identification from dental DNA	Areas of Isolation from dentin, cementum & pulp, Isolation of DNA	Schematic demonstration of Areas of Isolation from dentin, cementum & pulp, Isolation of DNA
Palatal rugae identification	Rugoscopy lecture	Rugoscopy Practical demonstration on students & cast
Dental profiling	Bite mark analysis, Archaeological study	Demonstration on cast & models
Identifying ethnic origin	Dental Tooth Morphological Patterns, Mucosa/Skin Pigmentation Pattern	Demonstration on cast & photographs
Sex differentiation & age estimation	Age estimation in children, adolescent, adults Moorrees, Fanning, Demirgian & cameriere et al Kvaal Pulp tooth ratio	Age estimation in children, adolescent, adults Moorrees, Fanning, Demirgian & cameriere et al Kvaal Pulp tooth ratio

GDCH Nagpur was established in the year 1968. Our Postgraduate Department was established in the year 1984. Since the beginning the graduates and postgraduates have made immense academic contribution in India and abroad. In past 36 years the department has given 95 oral pathologists and 8 Deans to our society. In the year 1997, it was awarded as centre of excellence for precancer and cancer.

Dr. Lele, Dr. Biviji, Dr. Sabne, Dr. Barpande and Dr. Hazarey Dr. Ganvir, Dr. Gosavi were the strong pillars on which department today stands tall and firm. They were the leaders with vision, creative ideas, capacity to work hard, sense of service and spirit of sacrifice. Today our renovated department is a centre of excellence for impeccable diagnosis of lesion related to oral and maxillofacial pathologies and is equipped with sophisticated equipment's like automatic tissue processor, paraffin embedding station, blood cell counter, research microscopes. We carry integrated research projects with renowned institution like NEERI, VNIT, RST and biotechnology department, Nagpur.

Forensic Odontology is a subspeciality requiring the involvement of odontologist or Forensic Experts. The skills of Forensic Odontology are helpful in Identification, Age estimation and other areas of criminal investigations like Bite Mark, especially in sexual assault cases. Despite the fact that the Indian Dental Association recommends that an individual's dental records (radiographs, models, photographs, and clinical correspondence) be securely kept for at least the legal minimum of 5-6 years, the practice is yet to be implemented across India.

Since last 35 years cases related to Forensic Odontology have been referred to our department for Age Estimation & Bite Mark Analysis.

**COURSE III:
ORAL IMPLANTOLOGY**



Department of Periodontology

Department of Oral Surgery

Department of Prosthodontics

ORAL IMPLANTOLOGY

(Add On Course for Interns)



**Government Dental College &
Hospital,
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COURSE III: ORAL IMPLANTOLOGY

(Run by Dept of Oral Surgery/ Prosthodontics/Periodontology)

This course is run by the Department of Dept of Oral Surgery/ Prosthodontics/Oral Implantology to impart students with the basic knowledge of oral implantology.

Introduction

Oral Implantology is now emerged as a new branch in dentistry worldwide and it has been given a separate status in the universities abroad. In India day to day the practice of treating patients with implants are on rise. In this context inclusion of this branch into under graduate curriculum has become very essential.

Objective

Impart basic knowledge of Oral Implantology to undergraduates and enable them to diagnose, plan the treatment and to carry out the needed pre surgical mouth preparations and treat or refer them to speciality centres.

Curriculum

1. History of implants, their design & surface characteristics and osseointegration
2. Scope of oral & maxillofacial implantology & terminologies
3. A brief introduction to various implant systems in practice

4. Bone biology, Morphology, Classification of bone and its relevance to implant treatment and bone augmentation materials.

5. Soft tissue considerations in implant dentistry

6. Diagnosis & treatment planning in implant dentistry

Case history taking/Examination/Medical evaluation/Orofacial evaluation/Radiographic evaluation/ Diagnostic evaluation/ Diagnosis and treatment planning/ treatment alternatives/ Estimation of treatment costs/ patient education and motivation

7. Pre surgical preparation of patient

8. Implant installation & armamentarium for the Branemark system as a role model

9. First stage surgery – Mandible – Maxilla

10. Healing period & second stage surgery

11. Management of surgical complications & failures

12. General considerations in prosthodontic reconstruction & Bio mechanics

13. Prosthodontic components of the Branemark system as a role model

14. Impression procedures & Preparation of master cast

15. Jaw relation records and construction of suprastructure with special emphasis on occlusion for osseointegrated prosthesis

16. Management of prosthodontic complications & failures

17. Recall & maintenance phase.

▪ **Module 1:**

- Introduction to implant dentistry.
- Applied anatomy and bone physiology

▪ **Module 2:**

- Parts and designs of dental implants.
- Materials used in dental implants

▪ **Module 3:**

- Indications, contraindications, advantages and disadvantages of dental implants
- Medical and pharmacological considerations
- Treatment planning & imaging techniques
- Surgical aspects in implantology.

▪ **Module 4:**

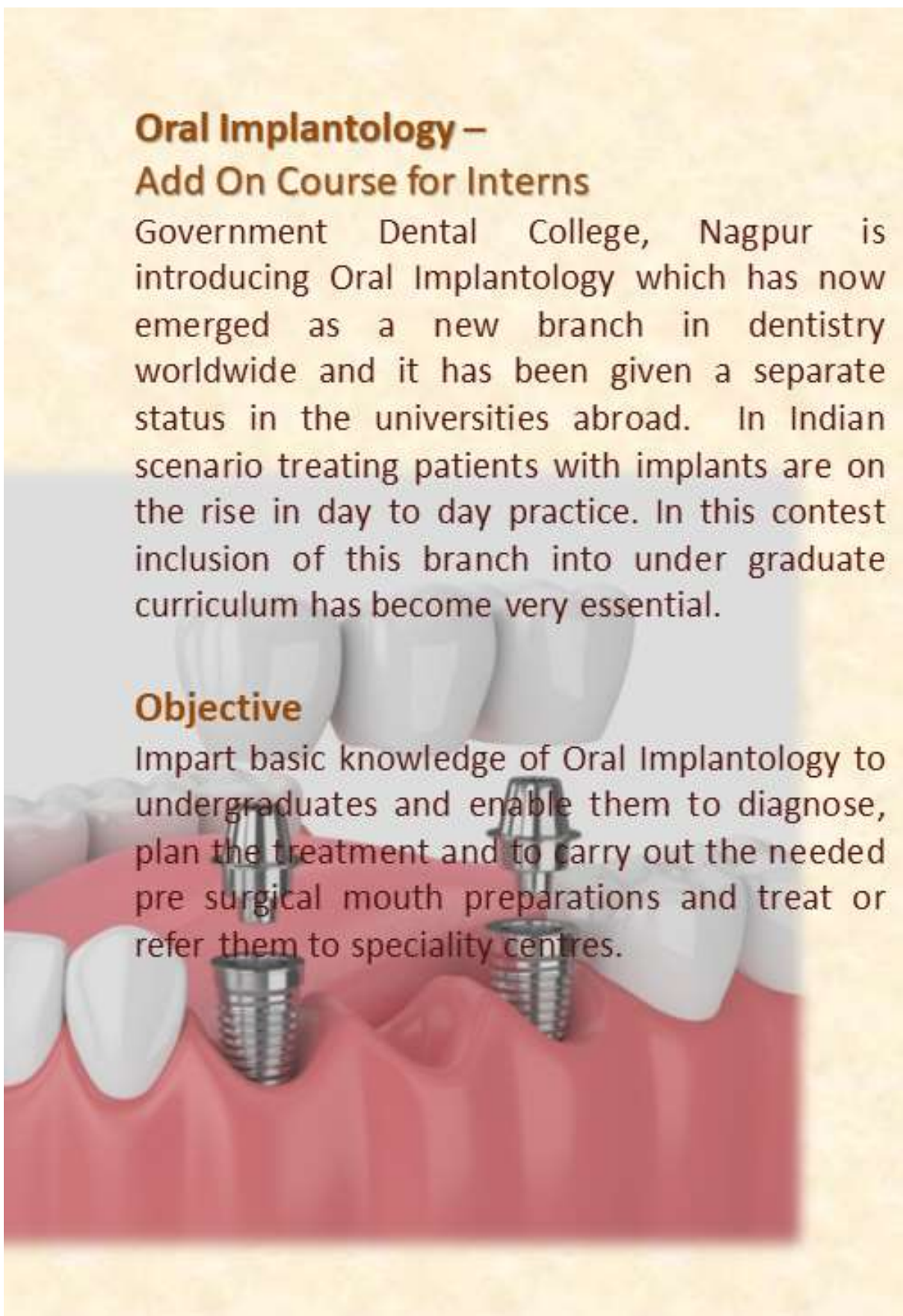
- Prosthetic Considerations
- Impression techniques
- Dealing with Peri-Implantitis

Oral Implantology – Add On Course for Interns

Government Dental College, Nagpur is introducing Oral Implantology which has now emerged as a new branch in dentistry worldwide and it has been given a separate status in the universities abroad. In Indian scenario treating patients with implants are on the rise in day to day practice. In this contest inclusion of this branch into under graduate curriculum has become very essential.

Objective

Impart basic knowledge of Oral Implantology to undergraduates and enable them to diagnose, plan the treatment and to carry out the needed pre surgical mouth preparations and treat or refer them to speciality centres.



**COURSE IV:
ETHICS AND
BEHAVIOURAL
SCIENCES**



**ADD ON COURSE ON
ETHICS AND BEHAVIOUR
SCIENCES
for 2nd year BDS students**



**DEPARTMENT OF PUBLIC HEALTH DENTISTRY
AND
PAEDODONTICS & PREVENTIVE DENTISTRY
GOVERNMENT DENTAL COLLEGE AND HOSPITAL
NAGPUR**

COURSE IV: ETHICS AND BEHAVIOURAL SCIENCES

(Run by Dept of Public Health Dentistry and Dept of Pedodontics)

This course is run by the Department of Public Health Dentistry & Department of Paediatric & Preventive Dentistry to understand ethical values & standards and role of Behavioural Sciences in management of patients.

ETHICS

Introduction:

There is a definite shift now from the traditional patient and doctor relationship and delivery of dental care. With the advances in science and technology and the increasing needs of the patient, their families and community, there is a concern for the health of the community as a whole. There is a shift to greater accountability to the society. Dental specialists like the other health professionals are confronted with many ethical problems. It is therefore absolutely necessary for each and every one in the health care delivery to prepare themselves to deal with these problems.

Objective:

- To develop human values and sensitise the students
- Make students understand the difference between a problem and an ethical dilemma
- Make students understand values and concepts such as informed consent, confidentiality, paternalism and capacity that are often applied in health care.

Curriculum

Introduction to ethics

- what is ethics?
- What are values and norms?
- How to form a value system in one's personal and professional life?
- Hippocratic oath.
- Declaration of Helsinki, WHO declaration of Geneva, International code of ethics, - - DCI Code of ethics.

Ethics of the individual – The patient as a person, right to be respected, Truth and confidentiality, Autonomy of decision, Doctor Patient relationship

Profession Ethics – Code of conduct, Contract and confidentiality, charging of fees, fee splitting, Prescription of drugs, Over-investigating the patient, Malpractice and negligence

Research Ethics – Animal and experimental research/humanness, Human experimentation, Human volunteer research-informed consent, Drug trials, Ethical workshop of cases, gathering all scientific factors, gathering all value factors, identifying areas of value – conflict, setting of priorities, Working our criteria towards decision.

BEHAVIOURAL SCIENCES

Introduction

The behavioural sciences seek to examine and understand the impact of human behaviour, and they offer methodologies and tools for better understanding the dentist-patient interaction.

Objectives

To impart such knowledge & skills that may enable him to apply principles of behaviour –

- a) For all round development of his personality
- b) In various therapeutic situations in dentistry.

The student should be able to develop skills of assessing psychological factors in each patient, explaining stress, learning simple counselling techniques, and improving patients' compliance behaviour.

Curriculum:

The training in Behavioural sciences shall prepare the students to deliver preventive, promotive, curative and rehabilitative services to the care of the patients both in family and community and refer advanced cases to specialised psychiatric hospitals.

Training should be integrated with all the departments of Dentistry, Medicine, Pharmacology, Physiology and Biochemistry.

PSYCHOLOGY:

1. Definition & Need of Behavioural Science. Determinants of Behaviour.
2. Sensory process & perception perceptual process- clinical applications.
3. Attention - Definition - factors that determine attention. Clinical application.
4. Memory - Memory process - Types of memory, Forgetting:
Methods to improve memory, Clinical assessment of memory & clinical applications.
5. Definition - Laws of learning
Type of learning. Classical conditioning, operant conditioning, cognitive learning, Insight learning, social learning, observational learning, principles of learning– Clinical application.
6. Intelligence- Definition: Nature of intelligence stability of intelligence
Determinants of intelligence, clinical application
7. Thinking - Definition: Types of thinking, delusions, problem solving
8. Motivation - Definition: Motive, drive, needs classification of motives
9. Emotions - Definition differentiation from feelings – Role of hypothalamus, Cerebral cortex, adrenal glands ANS. Theories of emotion, Types of emotions.
Personality. Assessment of personality: Questionnaires, personality inventory, rating scales,
Interview projective techniques – Rorschach ink blot test, RAT, CAT

SOCIOLOGY:

Social class, social groups – family, types of family, types of marriages, communities and Nations and institutions.

ETHICS

Theory Lecture Module (10 Hours)		Practical Module (10 Hours)	
Sr. No.	Lecture Topics	Sr. No.	Topics
1.	Definition Introduction to ethics	1.	Basics of ethics
2.	Declaration of Helsinki, WHO declaration of Geneva,	2.	Demonstrate understanding of human attitudes and ethical response by the doctor
3.	International code of ethics, DCI Code of ethics.	3.	Analyse critical situations/ challenges in clinical practice and taking ethical decisions
4.	Ethics of the individual	4.	Analyse critical situations/ challenges in research and taking ethical decision
5.	Profession Ethics	5.	Identify factors of problem and ethical dilemma – I
6.	Malpractice and negligence	6.	Identify factors of problem and ethical dilemma – II
7.	Ethics in research	7.	Discussion on various Unethical trials in Dentistry & Medicine
8.	Consent	8.	Discussion on various landmark medicolegal cases
9.	Drug trials	9.	Demonstration of handling potential medical negligence cases
10.	Medical jurisprudence	10.	Problem Solving Session

BEHAVIOURAL SCIENCES

Theory Lecture Module (10 Hours)		Practical Module (10 Hours)	
Sr. No.	Lecture Topics	Sr. No.	Topics
1.	Definition & need of behavioural science Determinants of behaviour Sensory process and perception perceptual process – clinical applications	1.	Basics of behavioural science
2.	Attention – Definition, Factors that determine attention, Clinical applications Memory – Memory process, types of memory, Forgetting: Methods to improve memory, Clinical assessment of memory and clinical applications	2.	Demonstrate understanding of human attitudes in clinical practice
3.	Definition- Laws of Learning, types of learning Principles of learning- Clinical application Classical conditioning, Operant conditioning	3.	Analyze critical situations/ challenges in clinical practice to solve clinical problems - I
4.	Cognitive learning, Insight learning, Social learning, Observational learning	4.	Analyze critical situations/ challenges in clinical practice to solve clinical problems - II
5.	Intelligence – Definition, Nature of Intelligence, Stability of intelligence Determinants of intelligence, Clinical application	5.	Identify factors affecting personality development - I
6.	Thinking – Definition, Types of thinking, delusions, problem solving	6.	Identify factors affecting personality development - II
7.	Motivation – Definition Motive, Drive, Needs classification of motives	7.	Demonstration of patient management skills- I
8.	Emotions- Definition Differentiation from feelings Role of hypothalamus, cerebral cortex, adrenal glands, ANS Theories of emotion Types of emotion	8.	Demonstration of patient management skills- II
9.	Personality assessment Interview projection techniques	9.	Basics of healthcare system and management of hospitals
10.	Sociology- Social class, Social groups Family- Types of family Types of marriages, communities, nation & institution	10.	Counselling of patients in different clinical situations

ETHICS for healthcare providers have a long history from days of Hippocrates to the present. Just being of moral character is not enough for a dentist to know how to act and make appropriate decisions, hence a set of rules are necessary to be known by the students.

BEHAVIOURAL SCIENCES focuses on how individual think and how they interact with one another in the natural environment. It entails the methodical examination of human behaviour using naturalistic observation, carefully monitored scientific testing, and mathematical modelling.

The general aim of the module is to help students to recognize the importance of being sensitive to ethical issues and understanding behavioural sciences to reach legitimate, impartial judgements; through careful formulations and observation within everyday clinical practice and develop in them the ability to effectively address the ethical and behavioural related concerns, which in turn will help them in becoming a better oral health care provider.



**COURSE V:
DIGITAL DENTISTRY**



**ADD-ON COURSE
IN
DIGITAL DENTISTRY**



(FOR INTERNS)



Department of Prosthodontics, Crown and Bridge

Government Dental College and Hospital , Nagpur

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COURSE V: DIGITAL DENTISTRY

(Run by Dept of Prosthodontics)

Introduction:

Digital dentistry refers to the use of dental technologies or devices that incorporates digital or computer-controlled components to carry out dental procedures rather than using mechanical or electrical tools. The use of digital dentistry can make carrying out dental procedures more efficient than using mechanical tools, both for restorative as diagnostic purposes. Used as a way to facilitate dental treatments and propose new ways to meet rising patient demands.

Objectives

1. Recall and recognize the fundamentals, advantages, and disadvantages of digital technology.
2. Evaluate, select, and identify indications and contraindications of digital technologies and dental materials based on the best evidence available.
3. Describe the principles of preparation and design for fixed digital prostheses.
4. List the steps of complete digital workflow for patient care in the clinic.
5. Describe the insertion process for digitally fabricated fixed prostheses.
6. Identify, diagnose, and refer patients requiring prosthodontic rehabilitations utilizing advanced digital dentistry that is beyond the scope of the didactic and clinical competency of the newly graduating general practitioner.

Curriculum

Introduction to Digital Technology

- Diagnosis and treatment planning for digital dental treatment
- Tooth Preparation, Design and Occlusal Considerations

Selection and Mechanical Properties of CAD/CAM Restorative Material

- Intraoral Scanning: Basics and Types of System
- CAD/CAM Systems: Scan and Design
- Digital impression making, tissue retraction and scanning protocol.
- Esthetics and Colour: Maximizing Esthetics using veneering, Characterization, and Staining

MODULE 1

- **Introduction to Digital Dentistry**
- **CAD/CAM Systems and Materials used in**
- **3-Printer and Materials used in**

MODULE 2

- **Digital technologies for assessment, diagnosis, and treatment planning**
- **Fundamentals of intra-oral scanners, lab-based scanning.**
- **Troubleshooting with intra-oral scanners**

MODULE 3

- **Digital Workflow**
- **Design and Occlusal Considerations**

MODULE 4

- **Occlusal correction and Cementation**
- **Troubleshooting and maintenance in CAD-CAM system and 3-Printing**

Digital dentistry enables dental professional to deliver treatment with the help of computer-aided tools that optimizes the dental treatment process and significantly speed up the process of creating dental products and reduce the amount of manual work. Digital dental technologies available for dental clinics or labs have a wide range of purposes. Imaging, scanning, digital design and 3D printing or milling are technologies developed on their own but complement each other for treatment planning, design and delivery of the final product.

The department of Prosthodontics and Crown & Bridges, Government Dental College and Hospital, Nagpur is glad to introduce the add-on course in this branch to train the dental professional to use existing digital tools appropriately for patient treatment.





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