

## TAGORE DENTAL COLLEGE AND HOSPITAL

### 2.6.3 PROGRAM SPECIFIC LEARNING OUTCOMES

#### **COURSE OUTCOME**

Tagore dental college is a modern and rapidly developing institution which offers opportunities for undergraduate study in Dentistry, broadly called Bachelor of Dental Surgery and in 4 branches of Postgraduation in Dentistry MDS degree. This degree is awarded after successful completion of (five years for BDS and 3 years for MDS) academic studies. The undergraduate and postgraduate program is judged as providing preparation for graduates to enter the profession and commence a professional career of dental practice. The curriculum consists of a set of required courses providing a core of knowledge in basic medical science and its application to dentistry. Later part of the course further develops the core abilities and provides the student, a set of broadly useful knowledge, practice and skills applicable to a variety of settings. In this part, many areas relevant to dental practice and surgery are contained within modules, while others require a sequence. In every case, the required content includes both generic information and dental service applications. The study and practice of dentistry are enhanced considerably by opportunities for observation and practice in a perfectly professional setting. This places the students in a hands-on situation.

#### **BDS - COURSE OUTCOMES**

The Bachelor of Dental Surgery (BDS) at Tagore is designed to enable graduates to become outstanding dentists and leaders in their chosen profession. Students will graduate with advanced knowledge of all aspects of oral health care provision with advanced clinical skills.

The graduate attributes have been developed and methodically designed to the intended learning outcomes of the subjects in the course (from the 1st year through to the final year) to meet the DCI norms.

The BDS graduate attributes reflect the Tagore Dental college graduate attributes of academic excellence, knowledge of the discipline, ability to live and work competently with people from different cultures and be model citizens. Course learning outcomes are organized in to the following 5 domains:

### **GENERIC SKILLS**

On completion of the BDS, students will be able to:

✓ Work as a member of a team;
✓ Design and conduct scientific investigations;
✓ Exhibit professional responsibility;
✓ Have an awareness of ethical, social and cultural issues and their importance in the exercise of professional skills and responsibilities;
✓ Value differences in health beliefs, lifestyles, ethnic and cultural background;
✓ Ensure safe and effective care for people of diverse backgrounds.

### **PROFESSIONALISM**

✓ The ability to apply practical skills and a recognition of their importance in health care;
✓ Have empathy, compassion, honesty, integrity, resilience and lifelong curiosity,
✓ Self-awareness, the ability to recognise when clinical problems exceed their knowledge and skill, and a willingness to seek help and/or to refer;
✓ The ability to identify and address their own learning needs ;
✓ A thorough understanding of the ethical principles and legal responsibilities involved in the provision of dental care to individual patients;
✓ Skills to use contemporary information technology for documentation including patient records, communication, management of information and applications related to health care.

## SCIENTIFIC KNOWLEDGE:

On graduation BDS graduates will have developed:

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✓ Knowledge of the basic biological, medical, technical and clinical sciences in order to recognise the difference between normal and pathological conditions;
✓ Skills to analyse oral health as it relates to symptoms, signs and pathology;
✓ Skills required to prevent, diagnose and treat anomalies and illnesses of the teeth, and associated structures;
✓ Knowledge of the management and interaction (pharmacological, physical, nutritional, behavioural and psychological) of important oral and medically-related conditions;
✓ Skills to provide treatment options based on the best available information;
✓ Scientific principles of sterilisation, disinfection and antisepsis and infection control and waste disposal;
✓ Knowledge of the hazards of ionising radiations and their effects on biological tissues, together with the regulations
✓ relating to their use, including radiation protection and dose reduction;
✓ Knowledge of research methods and their applications
✓ Knowledge of the moral and ethical responsibilities involved in the provision of care to individual patients, to populations and communities;
✓ Understand basic principles of practice administration, financial and personnel management to a dental practice.

**PATIENT CARE:**

On graduation, BDS graduates will have developed:

✓ The ability to communicate with patients including the ability to listen to, respond to, and provide appropriate information to patients;
✓ Respect for patients' values and their expressed needs;
✓ Skills to manage and the potential impact of chronic illness and disability on the patient's oral health;
✓ Appropriate skills to obtain a thorough dental, medical and social history and perform an accurate oral examination;
✓ The ability to integrate and interpret clinical findings and apply reasoning to arrive at an appropriate diagnosis or differential diagnosis;
✓ The ability to formulate an evidence-based and cost effective treatment plan in collaboration with the patient;
✓ The ability to perform appropriate dental procedures effectively and safely, with due regard for the patient's comfort including during emergency procedures;
✓ The ability to predict, prevent and correct deficiencies in patients' oral hygiene regimens and provide patients with strategies to control undesirable habits affecting the maintenance of oral and general health;
✓ Skills to alleviate pain and provide appropriate treatment outcomes.

## **DENTAL PROFESSION:**

On graduation, BDS graduates will have developed:

✓ The ability to be an active participant in professional organisations, and an appreciation of the benefits of this participation
✓ The ability to provide effective peer review in order to assist colleagues to improve their performance
✓ Maturity and responsibility to maintain standards of dental practice at the highest level throughout a professional career;
✓ The philosophy of lifelong learning and accept that continuing professional development is required for professional growth.

## **THE SOCIETY**

On graduation, BDS graduates will have developed:

✓ The Ability To Contribute To Their Communities Wherever They Choose To Live And Work;
✓ Knowledge Of The Determinants Of A 'Healthy Society' And The Economic, Political, Psychological, Social And Cultural Factors That Contribute To The Development And Persistence Of Oral Health And Illness;
✓ Skills Of Oral Health Promotion Including Primary And Secondary Prevention And Health Education;
✓ Skills To Identify The Requirements Of Health Care Systems In A Culturally Diverse Society;
✓ Respect Community Values, Including An Appreciation Of A Diversity Of Backgrounds And Cultural Values;
✓ Knowledge Of The Relationship Between Environmental Issues And The Oral Health And Health Of Local Communities And Society.

## MDS - COURSE OUTCOME

### GOALS

The goals of the post-graduate training in various specialities is to train the graduate in Dental Surgery who will,

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| (i) practice respective speciality efficiently and effectively, backed by scientific knowledge and skill;                                   |
| (ii) exercise empathy and a caring attitude and maintain high ethical standards;  |
| (iii) continue to evince keen interest in professional education in the speciality and allied specialities whether in teaching or practice; |
| (iv) willing to share the knowledge and skills with any learner, junior or a colleague;   |
| (v) to develop the faculty for critical analysis and evaluation of various concepts and views and to adopt the most rational approach.      |

### OBJECTIVES

The objective of the post-graduate training is to train a student so as to ensure higher competence in both general and special area of interest and prepare him or her for a career in teaching, research and speciality practice. A student must achieve a high degree of clinical proficiency in the subject and develop competence in research and its methodology in the concerned field.

The objectives to be achieved by the candidate on completion of the course may be classified as under:–

- ✓ Knowledge (Cognitive domain)
- ✓ Skills (Psycho motor domain)
- ✓ Human values, ethical practice and communication abilities

**(a) KNOWLEDGE.**

(I) Demonstrate Understanding Of Basic Sciences Relevant To Speciality;

(Ii) Describe Etiology, Pathophysiology, Principles Of Diagnosis And Management Of Common Problems Within The Speciality In Adults And Children;

(Iii) Identify Social, Economic, Environmental And Emotional Determinants In A Given Case And Take Them Into Account For Planned Treatment;

Iv) Recognise Conditions That May Be Outside The Area Of Speciality Or Competence And To Refer Them To The Concerned Specialist;

(V) Update Knowledge By Self Study And By Attending Courses, Conferences And Seminars Pertaining To Speciality;

(Vi) Undertake Audit, Use Information Technology And Carry Out Research In Both Basic And Clinical With The Aim Of Publishing Or Presenting The Work At Various Scientific Gathering;

**(b) SKILLS:**

(I) Take A Proper Clinical History, Examine The Patient, Perform Essential Diagnostic Procedures And Order Relevant Tests And Interpret Them To Come To A Reasonable Diagnosis About The Condition;

(Ii) Acquire Adequate Skills And Competence In Performing Various Procedures As Required In The Speciality.

**(c) HUMAN VALUES, ETHICAL PRACTICE AND COMMUNICATION ABILITIES.**

(I) Adopt Ethical Principles In All Aspects Of Practice;
(Ii) Foster Professional Honesty And Integrity;
(Iii) Deliver Patient Care Irrespective Of Social Status, Caste, Creed, Or Religion Of The Patient;
(Iv) Develop Communication Skills, To Explain Various Options Available And Obtain A True Informed Consent From The Patient;
(V) Provide Leadership And Get The Best Out Of His Team In A Congenial Working Atmosphere;
(Vi) Apply High Moral And Ethical Standards While Carrying Out Human Or Animal Research;
(Vii) Be Humble And Accept The Limitations In His Knowledge And Skill And To Ask For Help From Colleagues When Needed;
(Viii) Respect Patient's Rights And Privileges Including Patient's Right To Information And Right To Seek A Second Opinion.