



SHRI
DHARMASTHALA
MANJUNATHESHWARA
UNIVERSITY

Ordinance Governing
FELLOWSHIP COURSE IN DENTAL IMPLANTOLOGY
Curriculum 2020-21

SHRI DHARMASTHALA MANJUNATHESHWARA UNIVERSITY

(A State Private University established under the Shri Dharmasthala Manjunatheshwara University Act No 19 of 2018 of Government of Karnataka and Notification No. ED 261 URC 2018 dated 19th December 2018)

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|| Om Shri Manjunathaya Namaha ||



Shree Kshethra Dharmasthala

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THE LOGO

Poojya Dr D. Veerendra Heggade, Hon'ble Chancellor of the University, while searching for an appropriate Logo for the University, saw a photograph picked from Temple Architecture showing Wings of a Bird, sculpted in Indian style and wanted it to be incorporated in the logo for the University, as the Wings symbolize 'Spreading of Knowledge beyond Boundaries'. Further it was felt that the Central theme of the logo should be 'Rudra' (The Linga) with wings on each side. In this way, the logo of the University was conceptualized.

Hence:

1. The central part represents **Rudra** who Demolishes Darkness.
2. The Three **horizontal lines on The Linga** stand for Samyak Darshan (Right Belief), Samyak Gyan (Right Knowledge) and Samyak Charitra (Right Conduct).
3. The **Wings** symbolize spreading of Knowledge across the boundaries.
4. Base line **"Truth Liberates"** highlights the Purpose of Education: to liberate oneself unconditionally. It shows that it is not discipline, nor knowledge nor the efforts to freedom that liberate but Truth is what liberates you from all your conditioning and ignorance.

The overall significance of Shri Dharmasthala Manjunatheshwara University's Logo is:

Darkness of ignorance is destroyed by the flow of knowledge to bring Liberty to everyone, by realizing the truth. And, it should spread globally without the boundaries as hindrance.



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VISION

Shri Dharmasthala Manjunatheshwara University will set the highest standards of teaching and learning by awakening the intelligence of the students and nurturing the creativity hidden in them by creating an environment where the ancient wisdom blends with modern science, to transform them into whole human beings to face the challenges.

MISSION

- ▶ To ensure that the journey of education is inspiring, pleasant and enjoyable.
- ▶ Attract the best of teachers and students.
- ▶ Achieve high principles of trust, love and spirituality in the students.
- ▶ Create a collaborative, diverse and exclusive community.
- ▶ Transform the student of today to be a leader of tomorrow and a better human being.
- ▶ Produce passionate teachers.
- ▶ Evolve innovative teaching techniques.
- ▶ Create a peaceful environment.
- ▶ Prepare the student to face the social challenges.
- ▶ Create a University of which the Nation is proud of.
- ▶ Be an effective partner in Nation Building.
- ▶ Create an Eco-friendly University.
- ▶ Create a University based on the principles of beauty, love and justice.

||Om Shanti! Om Shanti! Om Shanti||



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SDMU/ACAD/Notif-164/ F-4/169/2021

Date: 10-05-2021

NOTIFICATION

Ordinance governing Curricula of Dental Fellowship & Certificate Courses - 2021

Ref: Minutes of the 4th Meeting of Academic Council held on 10/03/2021

In exercise of the powers conferred under Statutes 1.4 (Powers and functions - section ix & x) of Shri Dharmasthala Manjunatheshwara University, the Academic Council is pleased to approve and notify the ordinance governing the Curricula of the following Fellowship & Certificate Courses - 2021:

1. Forensic Odontology Certificate Course
2. Fellowship in Oral Implantology

The ordinance shall be effective for the students joining the course during 2020-21 and onwards.



Lt. Col. U. S. Dinesh (Retd.)

**REGISTRAR
REGISTRAR,
Shri Dharmasthala Manjunatheshwara
University, Dharwad**

To: The Principal, SDM College of Dental Sciences & Hospital.

Copy for kind information to:

1. Vice Chancellor - Shri Dharmasthala Manjunatheshwara University.
2. Pro Vice-Chancellor (Academics) - Shri Dharmasthala Manjunatheshwara University.
3. Controller of Examinations, Shri Dharmasthala Manjunatheshwara University.
4. Chairperson, Board of Studies - Dental PG
5. Department of Forensic Odontology
6. Department of Implantology
7. University Office for Records File
8. Office of the Registrar

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Introduction

The Department of Implantology, SDM College of Dental Sciences and Hospital, Dharwad has the distinction of being the first independent Department of Implantology in India. The Department has a rich tradition of academia and has been blessed to receive guidance from Professor P I Branemark and Professor Graflemann. The Fellowship in Dental Implantology is a one year, full-time, on-site, structured programme held in the Department of Implantology. The programme is designed using an integrated curriculum covering relevant aspects from the specialties of Oral and Maxillofacial Surgery, Prosthodontics and Periodontology.

Aim

The programme will provide the graduates the knowledge to critically evaluate various clinical situations, analytically establish a treatment plan, collaboratively execute high quality treatment, and ensure a successful rehabilitation of the patients.

Salient Features

- One year, on-site training will expose the candidates to a variety of clinical scenarios
- Working alongside MDS students will enable the candidates to gain academic and clinical excellence
- The candidates will also gain crucial insights in to long term performance of dental implants due to the long term follow up cases visiting the Department
- Collaborative training by 3 Departments will provide a holistic learning experience
- Candidates will be exposed to at-least 3 to 4 different implant systems. Not being reliant on a single implant system will provide a balanced and unbiased training in the discipline and help the candidates to adapt to any other implant systems in the future

Duration

1 year

Eligibility

BDS/MDS in DCI recognized institutions.

Fees and stipend

The course fees for the entire year are Rs. 5,00,000/- to be paid in total at the time of admission. The fees are inclusive of all material charges. The candidates are eligible to be paid a fixed monthly stipend of Rs. 5000/- for 12 months.

Leaves

Students are entitled to 2 days of casual leave per month. Leaves may be carried forward for a maximum period of 6 months.

Certificate/Accreditations/Credentialing

After completion of the Fellowship programme, the candidates will be awarded a 'Fellowship in Dental Implantology' from the SDM College of Dental Sciences, a constituent unit of Shri Dharmasthala Manjunatheshwara University, Dharwad.

The candidates will also be guided to receive advanced credentialing/accreditation/diplomas from renowned bodies like the Indian Society of Oral Implantologists (ICOI), the International Team for Implantology (ITI), the International Congress of Oral Implantologists (ICOI) and the Royal College of Surgeons and Physicians (UK) among others. Such guidance will be based on the interest expressed by the candidates and may attract additional fees as per the requirements of the various bodies.

Clinical postings and work allocation

Fellowship students will be posted in the Department of Implantology for a period of 9 months and in the Departments of Periodontics, Prosthodontics and Oral Surgery for a period of 1 month each. Additionally, the students will also be posted part-time in the Department of Oral Medicine & Radiology for a period of 2 weeks in total.

Department-wise clinical quota

Department	Task	Quota
Oral Medicine & Radiology	Radiography techniques	50 IOPAs with interpretation
		10 OPGs with interpretation
		05 CBCT scan with interpretation
Periodontics	Oral prophylaxis	20 patients
	Case history recording	05 patients
	Surgical assistance	10 patients
Prosthodontics	Complete denture fabrication	02 patients
	Treatment partial denture fabrication	02 patients
	Temporization & shade selection	02 patients
	Face bow transfers	02 patients
	Use of semi-adjustable articulators	
Oral and Maxillofacial surgery	Extractions	20 patients
	Surgical assistance	10 patients
	IV and IM administration of drugs	10 patients
Implantology	Single implant placements and restorations at well healed sites	04 patients
	Immediate implant placement	02 patients
	Implant placement with guided bone regeneration	02 patients
	Two implant supported removable overdenture	01 patient
	Multiple implant supported prosthesis	01 patient
	Advanced surgical procedures like <ul style="list-style-type: none"> • Indirect sinus lift • Alveolar ridge split and expansion • Intra-oral autogenous bone grafting • Palatal soft tissue grafting • Alveolar socket preservation 	As per availability of patients

Research project

A student is expected to begin a research project (or systematic review) by the end of the 1st Module and submit the completed project by the end of the Fellowship. Submission of a completed project in the form of a research article to a peer-reviewed journal and/or presentation at a conference is a pre-requisite for attending the Fellowship exam.

Documentation

The Fellowship students are expected to maintain a detailed log book of all the treated and assisted cases during the programme. The students are also expected to document all the treated cases with detailed photographs. The documentation compiled by the Fellowship students should be certified by the course faculty as acceptable to enable the candidates to attend the Fellowship exam.

Examinations and assessments

1. A written examination will be held at the end of the 1st and 2nd modules.
2. A Fellowship exam including a written paper and viva-voce will be conducted at the end of the 3rd Module.

Syllabus and distribution

1st Module (3 months)

The candidate will be posted for duty and completion of department-wise clinical quota to the following departments

1. Department of Oral Medicine & Radiology – 2 Weeks
2. Department of Periodontics – 3 Weeks
3. Department of Oral Surgery – 3 Weeks
4. Department of Prosthodontics – 4 Weeks

2nd Module (3 months)

1. Introduction to Dental Implantology
2. History of Dental Implantology
3. Current state-of-the-art in Oral Implantology
4. Understanding the edentulous condition

- a. Partially and completely edentulous maxilla
 - b. Partially and completely edentulous mandible
 - c. Patterns of bone resorption
5. Prosthetically driven Implantology
6. Diagnosis and treatment planning
 - a. Clinical diagnosis
 - b. Radiographic diagnosis
 - c. Evaluation of the systemic status
 - d. Choice of the implant system
7. Influence of environmental and systemic factors on dental implant treatment and prognosis
8. Parafunctional habits and other risk factors
9. Treatment planning for partially edentulous patients
10. Surgical stents and guides, digital treatment planning
11. Dental implant macrodesign and microdesign – and biologic rationale
12. Introduction to Dental Implant systems - surgical
13. Bone biology and osseointegration
14. Timing of implant placement – Immediate, early, delayed
15. Preparation of the implant osteotomy
 - a. Surgical and clinical aspects of various techniques
 - b. Three dimensional implant positioning and basic guidelines
 - c. Flap management and suturing techniques, flapless placements
 - d. Evaluation of implant stability
16. Second – stage surgery
 - a. Surgical techniques
 - b. Choice of per-mucosal extension
17. Digital workflow in implant surgery
18. Introduction to dental implant systems - prosthetics

Distribution

Lectures	Journal Club	Seminars	Table clinic/chair-side discussion/demonstration.	Pre-clinical and Clinical work
Introduction to Dental Implantology	Influence of environmental and systemic factors on dental implant treatment and prognosis	Understanding the edentulous condition <ul style="list-style-type: none"> • Partially and completely edentulous maxilla • Partially and completely edentulous mandible • Patterns of bone resorption 	Choice of the Implant System	Placement of an implant on a model
History of Dental Implantology	Timing of implant placement – Immediate, early, delayed	Diagnosis and treatment planning <ul style="list-style-type: none"> • Clinical diagnosis • Radiographic diagnosis • Evaluation of the systemic status 	Surgical stents and guides	Suturing techniques on a model
Current state-of-the-art in Oral Implantology	Preparation of the implant osteotomy – surgical and clinical aspects of various techniques	Treatment planning for partially edentulous patients	Introduction to dental implant systems - surgical	Impression of an implant on a model (one open tray and one closed tray) and pouring of the cast
Prosthetically driven Implantology	Digital workflow in treatment planning	Bone biology and osseointegration	Introduction to dental implant systems – prosthetics	Preparation of a jig and Jig trial on the model

	Digital workflow in implant surgery	Flap management and suturing techniques	Second – stage surgery and choice of per-mucosal extension	Surgical assistance for implant placement
		Temporization in dental Implantology	Temporization in dental Implantology	Involvement in clinical and laboratory prosthetic procedures
			Presentation of diagnosis and treatment planning for 2 actual cases	

3rd Module (3 months)

1. Introduction to dental implant prosthetics
2. Impression techniques for single and multiple implants
3. Temporization in dental Implantology
4. Cement retained versus screw retained prostheses
5. Abutment selection
6. Dental Materials for dental implant prostheses
 - a. Acrylic
 - b. Composites
 - c. Porcelain fused to metal
 - d. Zirconia and porcelain fused to zirconia
 - e. Titanium
 - f. Newer materials
7. Materials for preparation of lab models
8. Digital workflow in implant prosthetics
9. Fabrication of implant prostheses
10. Jaw relations, face bow record, articulator selection and mounting
11. Occlusion in dental Implantology
12. Advanced implant surgical procedures
 - a. Bone splitting and expansion
 - b. Maxillary sinus elevation – direct and indirect
 - c. Bone grafting and guided bone regeneration
 - d. Keratinized tissue and soft tissue grafting techniques

Distribution

Lectures	Journal Club	Seminars	Table clinic/chair-side discussion/demonstration.	Pre-clinical and Clinical work
Introduction to dental implant prosthetics	Cement retained versus screw retained prostheses	Abutment selection	Impression techniques for single and multiple implants	Demonstration
Occlusion in dental Implantology	Digital workflow in implant prosthetics	Dental Materials for dental implant prostheses	Temporization in dental Implantology	Demonstration
		Advanced implant surgical procedures	Fabrication of implant prostheses	Placement of single dental implants in 2 patients and fabrication of prostheses
			Occlusion in dental Implantology	Carrying out and assisting second stage surgeries in patients
			Prosthetic work-flow with multi-unit components	Temporization of 1 anterior implant patient
				Assisting advanced dental implant procedures being carried out by faculty or 3 rd year students
				Hands-on experience on models for maxillary sinus elevation

4th Module (3 months)

1. Evidence based decision making in implant surgery
2. Evidence based decision making in implant prosthodontics
3. Contemporary dental implant therapy
4. Management of fully edentulous patients
 - a. Diagnosis and treatment planning
 - b. Surgical considerations including introduction to pterygoid and zygomatic implants
 - c. Prosthetic options for fully edentulous patients
 - d. Digital workflow for full arch cases
5. Interdisciplinary management of complex cases
 - a. Placement of dental Implants after radiotherapy
 - b. Placement of dental implants in reconstructed jaws
 - c. Adjunctive role of Orthodontics in Dental Implantology
 - d. Role of dental implants in maxillo-facial prosthodontics
6. Peri-implantitis – aetiopathogenesis and management
7. Evaluation of dental implant restorations – success versus survival
8. Management of the complications of dental Implant therapy
 - a. Surgical complications
 - b. Prosthetic complications
 - c. Implant failure
9. Maintenance phase therapy for dental implant patients
10. Referrals and teamwork in dental implant therapy

Distribution

Lectures	Journal Club	Seminars	Table clinic/chair-side discussion/demonstration.	Pre-clinical and Clinical work
Contemporary dental implant therapy	Evaluation of dental implant restorations – success versus survival	Evidence based decision making in implant surgery	Digital workflow for full arch cases	Diagnosis and treatment planning for full arch cases
Management of fully edentulous patients		Evidence based decision making in implant prosthodontics		Digital workflow for full arch cases
		Interdisciplinary management of complex cases		Hands-on models for all-on-four implant placement
		Peri-implantitis		Hands-on models for all-on-four implant prosthetics
		Management of complications		

Course Faculty

Dr. Sudhindra Kulkarni, MDS (Periodontics), Diplomate (ICOI,USA)

Dr. Satyabodh Guttal, MDS (Prosthodontics), Fellow (ISOI)

Dr. Mihir Kulkarni, MDS (Periodontics), Fellow (ISOI), ITI Member

Dr. Abhijit Joshi, MDS (Oral & Maxillofacial Surgery), ITI Member



SDM College of Medical Sciences & Hospital



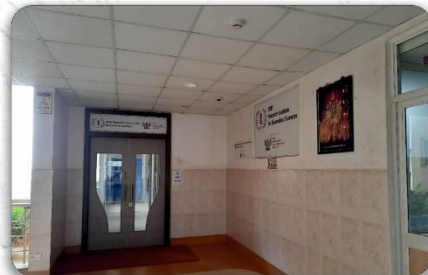
SDM College of Dental Sciences & Hospital



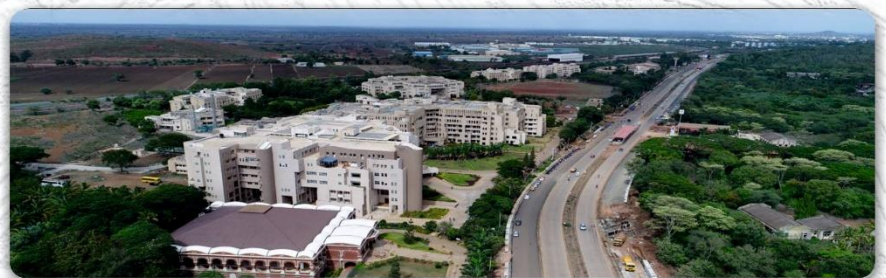
SDM College of Physiotherapy &
SDM Institute of Nursing Sciences



Shri Dharmasthala Manjunatheshwara University



SDM Research Institute for Biomedical Sciences



Panoramic View of Campus