



SHRI
DHARMASTHALA
MANJUNATHESHWARA
UNIVERSITY

Ordinance Governing
FELLOWSHIP COURSE IN REPRODUCTIVE MEDICINE
Curriculum 2019-20

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)

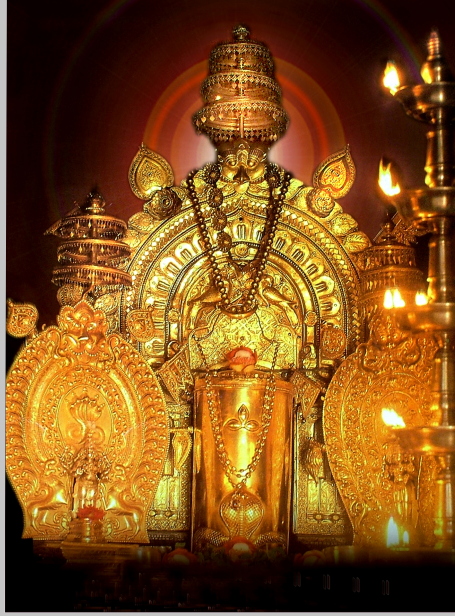
Manjushree Nagar, Sattur, Dharwad - 580 009, Karnataka, India

6th Floor, Manjushree Block SDM Medical College Campus

+91 836 2321127,2321126,2321125,2321124 sdmuniversity.edu.in

sdmuo@sdmuniversity.edu.in ; registrar@sdmuniversity.edu.in

|| Om Shri Manjunathaya Namaha ||



Shree Kshethra Dharmasthala

Edition Year : 2019-20

Shri Dharmasthala Manjunatheshwara University,
Manjushree Nagar, Sattur, Dharwad - 580 009, Karnataka, India
Phone: 0836-2321127
email: sdmuo@sdmuniversity.edu.in

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Shri Dharmasthala Manjunatheshwara University
6th Floor, Manjushree Block SDM Medical College Campus
Manjushree Nagar, Sattur, Dharwad - 580 009, Karnataka, India
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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 three 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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6th floor, Manjushree Building, SDM College of Medical
Sciences & Hospital Campus, Sattur, Dharwad - 580009
Tel. No : +91 836 2477511, 2321115, 2321117
Fax: +91836 2463400
Email: registrar@sdmuniversity.edu.in

Ref: SDMU/Notif/14/2019

Date: 24/04/2019

NOTIFICATION

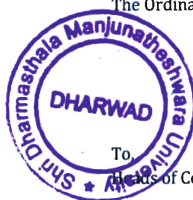
Starting of New Programs from the Academic Year 2019-20

- Ref: (1) Minutes of the 1st Meeting of Academic Council held on 20/03/2019
(Letter No: SDMU/AC/M-01/93/2019; Dated 21/03/2019)
(2) Minutes of the 2nd Meeting of Board of Management held on 22/03/2019
(Letter No: SDMU/BoM/M-02/94/2019; Dated 23/03/2019)

In exercise of the powers conferred under Statutes 1.1 (Powers - Section xii), 1.2 (Powers and Functions - Section vii), 1.4 (Powers and Functions - Sections ix & x) of Shri Dharmasthala Manjunatheshwara University, the BoM is pleased to approve and notify the below listed Programs / Courses for the year 2019-20.

Sl. No.	Program	Intake
FELLOWSHIP PROGRAMS IN MEDICAL FACULTY		
1	Fellowship in Neonatal Intensive Care	02
2	Fellowship in Nephrology / Renal Dialysis	02
3	Fellowship in Gynaec. Endoscopy	02
4	Fellowship in Reproductive Medicine	02
5	Fellowship in Consultation Liaison Psychiatry	02
6	Fellowship in Rhinology	02
CERTIFICATE COURSES IN MEDICAL FACULTY		
1	Certificate Course in Blood Bank Technician	04
2	Certificate Course in Histo-Technician	04
3	Certificate Course in Renal Dialysis	04
4	Advanced Certificate Course in Medical Microbiology Laboratory Technology	02
GOVERNMENT SPONSORED PROGRAM (BISEP)		
1	PG Diploma in Cellular & Molecular Diagnostics	20
FELLOWSHIP PROGRAMS IN DENTAL FACULTY		
1	Fellowship in Cleft Lip & Palate (Oral Surgery)	02
2	Fellowship in Forensic Odontology	08
3	Fellowship in Oral Implantology	02
Ph.D COURSES UNDER VARIOUS FACULTIES		
1	Ph.D. Course in Medical Faculty	12
2	Ph.D. Course in Dental Faculty	18
3	Ph.D. Course in Physiotherapy	03

The Ordinance shall be effective for the students joining the courses / programs during 2019-20 onwards.



To,
Heads of Constituent Institutes, Shri Dharmasthala Manjunatheshwara University


REGISTRAR
REGISTRAR,
Shri Dharmasthala Manjunatheshwara
University, Dharwad

Copy for information to:

- (1) Hon'ble Vice Chancellor, Shri Dharmasthala Manjunatheshwara University
(2) Controller of Examinations, Shri Dharmasthala Manjunatheshwara University

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Introduction:

Reproductive Medicine has emerged as a subspecialty in the last decade. SDM Fertility Centre is state of art Reproductive Medicine Unit with all the facilities. The Centre was established in September 2016. This Centre is spread over 4000 sq. ft. The Centre has also applied for ICMR Registration. An average of 56-60 patients everyday seeks consultation and around 50 patients per year undergo IVF / ICSI treatment.

Title of the Course: Reproductive Medicine

Goals:

To train Obstetricians & Gynecologists regarding the management of infertile couples ethically.

Objectives:

Evaluate the infertile couple and have a thorough knowledge of Assisted Reproductive Techniques (ART) and the ethical and legal implications of ART.

Intake of Students: 02 (Two) Nos.

Eligibility for Admission:

- M.S. in Obstetrics & Gynecology in MCI approved place or
- D.N.B. Obstetrics & Gynecology in NBE approved place

Selection / Admission Procedure:

Written Examination followed by Interview with Original documents.

Duration of the Course: One year

Monitoring Progress of Students:

Periodical Examination with Viva Voce

Teaching Hours, Postings & Attendance:

In line with Shri Dharmasthala Manjunatheshwara University Guidelines

Scheme of Examination:

Written & Viva Voce with Practical Examination

Certification: Shri Dharmasthala Manjunatheshwara University, Dharwad

Stipend: Rs. 15,000/- per month

**Course Curriculum:
THEORY**

1. Basic Reproductive Physiology
 - (a) Endocrinology of Male and Female Reproduction
 - (b) Spermatogenesis and its regulation
 - (c) Epididymal sperm transport
 - (d) Folliculogenesis and Oogenesis
 - (e) Fertilization and early embryo development
 - (f) Physiology and regulation of implantation process
 - (g) Etiology of Male & Female factor infertility

2. Andrology : 03 Months
 - (a) Semen Collection
 - (b) Semen Analysis
 - (c) Sperm function tests
 - (d) Sperm wash techniques
 - (e) Physiological changes in spermatozoa sperm processing
 - (f) Intra-uterine insemination
 - (g) Semen cryopreservation
 - (h) Retrograde ejaculation
 - (i) Diagnosis of Azoospermia
 - (j) Sperm retrieval techniques from testes and epididymal tissue
 - (k) Donor insemination
 - (l) Semen banking

3. Assisted Reproductive Techniques (ART) : 09 Months
 - (a) Investigations for infertility
 - (b) Patient counseling
 - (c) Ovulation induction protocols
 - (d) OHSS and its management
 - (e) Ultrasound in ART
 - (f) In vitro fertilization
 - (g) Intracytoplasmic sperm injection
 - (h) Embryo culture medium and culture techniques
 - (i) Grading of embryos at various stages of development

- (j) Embryo selection and embryo transfer technique
- (k) Embryo cryopreservation and thawing
- (l) Frozen embryo transfer
- (m) Oocyte and Gonadal tissue cryopreservation
- (n) Oocyte, embryo donation and surrogacy
- (o) Ethics in ART and National guidelines
- (p) Quality control in IVF laboratory and andrology
- (q) Data management in IVF

PRACTICALS

- Semen Analysis techniques
 - Follicular imaging
 - Intra Uterine insemination
 - Ovum Retrieval technique
 - Embryo transfer technique
 - IVF
 - Oocyte cryopreservation and thawing
 - Embryo freezing and thawing
 - ICSI
 - TESA
 - Embryo reduction
 - Knowledge about instruments
- Lecture Classes every week
 - Seminars
 - Journal presentation
 - Laboratory posting
 - Clinical posting
 - Sessional exam for each module (I,II & III)

Training Skills:

Teaching with hands-on training in basic andrology and advanced infertility procedures

Scheme of Practical Learning:

Observation and hands-on training and Embryology on simulator

Methods of Learning:

Audio, Visual Aid and E-Learning

Learning Resource Material:

E-Learning, Observation and hands-on training under supervision, Books

Recommended books:

1. Text book by Speroff's Clinical Gynecologic Endocrinology and Infertility
2. Text book of Assisted Reproductive Techniques : Laboratory and Clinical Perspectives by Gardner
3. ART Manual by Dr. Kamini Rao



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