

School of Dental Sciences and Technology

Course Structure

Undergraduate Programs:

Bachelor of Science (B.Sc.)

Postgraduate Programs:

Master of Science (M.Sc.)

Curricular structure for First year First Semester undergraduate (B.Sc.) Courses

S. No	SUBJECT	L	T	P	C	Max. Marks		
						INT	EXT	TOTAL
1	Human Anatomy - I	4	-	-	4	30	70	100
2	Human Physiology - I	4	-	-	4	30	70	100
3	Medical Bio-chemistry- I	4	-	-	4	30	70	100
4	Sociology	2	-	-	2	30	70	100
5	English and Communication Skills	2	-	-	2	30	70	100
6	Basics of Computers	1	-	2	2	30	70	100
7	Human Anatomy - I Practical	-	-	4	2	30	70	100
8	Human Physiology - I Practical	-	-	4	2	30	70	100
9	Environmental Awareness	2	-	-	2	100	-	100
	TOTAL	19	-	10	24	340	560	900

Curricular structure for First year First Semester Postgraduate (MSc) Courses

Master of Science (M.Sc.) in Oral Biology

SI No	Subject	L	T	P	Credits	Internal	External	Total
1	Oral Molecular Biology & Genetics	2	–	2	4	40	60	100
2	Oral Microbiology & Immunology	1	–	1	2	40	60	100
3	Oral Structures, Histology & Tissue Biology	2	1	1	4	40	60	100
4	Research Methodology & Biostatistics	2	1	1	4	40	60	100
5	Minor Elective 1	1	–	1	2	40	60	100
6	Minor Elective 2	1	–	1	2	40	60	100
7	Professional Communication & Interpersonal Skills in Allied Healthcare	1	–	1	2	40	60	100
8	SWAYAM Course	2	–	–	2	–	–	–
	Total				22	–	–	700

Master of Science (M.Sc.) in Biomaterials & Regenerative

SI No	Subject	L	T	P	Credits	Internal	External	Total
1.	Introduction to Regenerative Dentistry	2	–	–	4	40	60	100
2.	Chemistry and Structure of Biomaterials	2	–	–	4	40	60	100
3.	Biological Interactions with Biomaterials	2	–	–	4	40	60	100
4.	Cell Biology and Tissue Engineering Principles	2	–	–	4	40	60	100
5.	Characterization Techniques (SEM and TEM)	–	–	2	2	20	30	50
6.	Basic Cell Culture Techniques	–	–	2	2	20	30	50
7.	Mechanical Testing	–	–	2	2	20	30	50
8.	Research Methodology	–	–	2	2	20	30	50
	Total				24			600

Master of Science (M.Sc.) in Dental Technology

Sl no	Subject	L	T	P	Credits	Internal	External	Total
1.	Advanced Dental Materials & Biomechanics	2	-	2	4	40	60	100
2.	Digital Workflow in Prosthetic Dentistry	1	-	1	2	40	60	100
3.	Implant-Supported & Orthodontic Prosthetics	2	1	1	4	40	60	100
4.	Research Methodology & Biostatistics	2	1	1	4	40	60	100
5.	Minor Elective 1	1	-	1	2	40	60	100
6.	Minor Elective 2	1	-	1	2	40	60	100
7.	Professional Communication and Interpersonal Skills in Allied Healthcare	1	-	1	2	40	60	100
8.	SWAYAM Course	2	-	-	2			
	Total				22			700

Master of Science (M.Sc.) in Digital Dentistry

Sl no	Subject	L	T	P	Credits	Internal	External	Total
1.	Basic in Digital Dentistry	2	-	2	4	40	60	100
2.	Dental Anatomy	1	-	1	2	40	60	100
3.	Preclinical Restorative Dentistry	2	1	1	4	40	60	100
4.	Preclinical Prosthodontics	2	1	1	4	40	60	100
5.	Minor Elective 1	1	-	1	2	40	60	100
6.	Minor Elective 2	1	-	1	2	40	60	100
7.	Professional Communication and Interpersonal Skills in Allied Healthcare	1	-	1	2	40	60	100
8.	SWAYAM Course	2	-	-	2			
	Total				22			700

Master of Science (M.Sc.) in Aesthetic Dentistry

Sl No	Subject	L	T	P	Credits	Internal	External	Total
1.	Fundamentals of Aesthetic Dentistry & Smile Design Principles	2	1	1	4	40	60	100
2.	Dental Materials in Cosmetic Restorations (Ceramics, Composites, Adhesives)	2	0	2	4	40	60	100
3.	Digital Imaging & Smile Design (Photography, CAD, DSD Software)	1	1	2	4	40	60	100
4.	Research Methodology & Biostatistics	2	1	1	4	40	60	100
5.	Elective 1 – Oral & Dental Photography / Cosmetic Dermatology Basics	1	0	1	2	40	60	100
6.	Patient Communication, Psychology & Counseling in Aesthetic Dentistry	1	0	1	2	40	60	100
	SWAYAM/NPTEL Course	2	–	–	2	–	–	–
	Total				22			600

Master of Science (M.Sc.) in Odontology - Semester I

Sl No	Course Title	L	T	P	Credits	Internal	External	Total
1	Advanced Oral Pathology & Diagnostics	2	1	1	4	40	60	100
2	Clinical Periodontology & Implantology	2	0	2	4	40	60	100
3	Advanced Endodontics & Operative Dentistry	2	1	1	4	40	60	100
4	Research Methodology & Biostatistics	2	1	1	4	40	60	100
5	Elective 1 – Advanced Imaging Techniques / Dental Biomaterials	1	0	1	2	40	60	100
6	Professional Communication & Ethics in Clinical Practice	1	0	1	2	40	60	100
7	SWAYAM/NPTEL Course	2	–	–	2	–	–	–
	Total				22			600