

Saveetha Dental College

Saveetha Institute of Medical and Technical Sciences (SIMATS)

Vision:

To be and to be recognized for setting the standards of excellence in professional education and high quality scientific research.

Mission:

To Promote Academic Excellence, widen intellectual horizons, inculcate self discipline, and high ideals for the total personality development of individual to convert a novice into a competent professional with excellent theoretical knowledge and unsurpassed practical / clinical skills and to motivate interest in research activities, further education and social service.

PO CO mapping for MDS 1507 (ORAL PATHOLOGY)

Program Outcome MDS	
PO1	Sound Theoretical Knowledge and Clinical / Practical Skills
PO2:	Ability to communicate and express concepts with basic pedagogical principles
PO3:	Sound Understanding of Research and ability to take up and complete independent research projects
PO4	Develop an aptitude for interdisciplinary diagnosis, prognosis and treatment planning.
PO5	Ability to apply and integrate basic science theory in their speciality knowledge.
PO6	Acquire sound principles in ethics and empathy

Program Specialised Outcome MDS ORAL PATHOLOGY - 1507	
PSO1	Practice Oral and maxillofacial pathology efficiently and effectively, backed by scientific knowledge and skills
PSO2	Sufficient general clinical knowledge including major changes in trends of diagnosis and treatment of head and neck pathologies
PSO3	Solving complex clinical problems pertaining to oral and maxillofacial disorders and neoplastic conditions by applying sound knowledge of basic principles of craniofacial pathology
PSO4	Integration of clinical and pathological data for accurate diagnosis of oral lesions

PSO5	Combine and correlate histopathological features with molecular profile, wherever applicable
PSO6	Utilization of advanced diagnostic techniques and equipments including cryosections, immunohistochemistry and special staining methods
PSO7	Communicating and managing diagnostic laboratory procedures in support of patient care for assessing quality of life in oral cancers
PSO8	Screening and risk assessment for head and neck disorders including oncology
PSO9	Understanding the normal biological process and the structure and function of the human body with special emphasis on the head and neck.
PSO10	Understanding the deviations in the normal biological process and the structure and function of the human body with special emphasis on the head and neck.
PSO11	Communication with other health professionals, labs and technical experts to understand, interpret and include in the planning and management of various dental diseases and oral and maxillofacial diseases.
PSO12	Widen intellectual horizons by researching new information and contributing to the existing literature with novel discoveries to enhance the quality of health care for the society and updation in accordance with latest terminologies and classifications in Oral Pathology

PSO13	Set high moral and ethical standards and respect patient's rights and privileges and foster professional honesty and integrity with maintenance of audit and documentation of pathological reports which can be used for in the court of law
PSO14	To critically analyze and evaluate the various concepts for evidence based decision making in pathological diagnosis.
PSO15	Higher competence in cognitive, psychomotor, ethical and communication domains.

PO CO mapping for MDS (002) BIostatistics

Course Details: MDS: 001 [Applied Basic Medical Sciences - ABMS]		
Course Outcome		PO mapping
CO1	Knowledge of applied Anatomy, Physiology, Biochemistry Physiology, Pathology, Microbiology in respective clinical specialties.	PO5 PSO1, PSO2,

CO2	Knowledge and applications of molecular biology and genetics in disease pathogenesis, diagnosis in clinical practice	PO5 PSO4,PSO5
CO3	Knowledge of applied material sciences in developing treatment strategies	PO5 PSO6
CO4	Knowledge on infection protocol in clinical practice	PO5 PSO11
	Outcome Evaluation (100 marks) Total Score (Summative = 100 marks)	PO CO Mapping
ST	Theory exam-100 marks	PSO1, PSO2, PSO4, PSO5, PSO6, PSO11

Outcome Analysis (100 marks)			
	Outcome Evaluation (100 marks)	PO CO Mapping	Outcome Analysis 2021

	Total Score (Summative=100 marks)		
ST	Theory Exam	PO5 PSO1, PSO2, PSO4, PSO5, PSO11	70
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • FT FORMATIVE THEORY 			

Course Details: MDS: 002 [Research Methodology and Biostatistics]		
Course Outcome		PO mapping
CO1	Should know the basics of clinical epidemiology	PO3 PSO8, PSO11, PSO12

CO2	Should know the importance of ethics in research	PO3
CO3	Should have the knowledge of various study designs namely Cohort, Case control, Cross sectional, Clinical trial and Diagnostic studies	PO3,
CO4	Should be able to define the hypothesis and frame the research question in PICO format	PO3
CO5	Should know the various reporting guidelines	PO3
CO6	Should be able to critically analyze the topic with emphasis on quality assessment	PSO 11, PO3
CO7	Understanding of Descriptive and Inferential statistical tests and interpretation.	PO3
CO8	Knowledge on types of data and to arrive at sample size determination for the research projects to be undertaken using G PSover analysis.	PO3
CO9	Knowledge on parametric and non parametric statistical analysis and choosing of appropriate tests based on the outcome variables.	PO3
CO10	Application of Descriptive and Inferential statistical analysis of data using statistical software SPSS	PO3

Outcome Evaluation (100 marks)		PO CO Mapping
Total Score (Summative = 100 marks)		
ST	Theory exam-100 marks	PO3 CO1 PSO8, PSO11, PS012,
FT	Assessment of activities and assignments (100 marks)	PO1 PSO08, PSO11 CO4, CO5, CO6, CO7, CO8,CO9,CO10

Outcome Analysis (100 marks)			
	Outcome Evaluation (100 marks)	PO CO Mapping	Outcome Analysis 2021
ST	Theory Exam	PO3 CO1	73

		PSO8, PSO11, PSO12	
FT	Formative Assessment	PO3 CO1, CO2, CO3, CO4, CO5, CO6, CO7, CO8, CO9, CO10 PSO8, PSO11, PSO12	75
<p>Legend:</p> <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • FT FORMATIVE THEORY 			

Course Details: MDS 468: BONE, ODONTOGENIC AND SALIVARY GLAND PATHOLOGY		
Course Outcome		PSO Mapping
CO1	To gain insight into the development and pathogenesis of salivary gland, bone and odontogenic pathology	PO1 PSO9, PSO10

CO2	To be proficient in critical evaluation of the literature its application in diagnostic approach	PO2, PO4 PSO12, PSO14, PSO15
CO3	To be competent in identifying individual salivary gland, bone and odontogenic pathologies	PO1 PSO1, PSO2,PSO3, PSO4
CO4	Should be able to grade and stage salivary glands and bone pathologies according to updated grading systems	PO5 PSO8,PSO11, PSO12
CO5	Should be able to clinically evaluate the salivary glands and perform Fine Needle Aspiration Cytology (FNAC) along with reporting of cytology using recent classification systems	PO1 PSO2, PSO3, PSO4, PSO6, PSO12
CO6	Should be able to diagnose bone, salivary gland and odontogenic pathologies timely and independently	PO1 PSO1, PSO3, PSO5, PSO6, PSO13
CO7	Be skilled to document the special cases pertaining to pathologies of bone, salivary glands and odontogenic apparatus.	PSO13

	Outcome Evaluation (200 marks) Total Score (Summative=100 marks, formative = 100	PO CO Mapping
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	marks)	
ST	EBD Concept Map (25 marks)	PSO1, PSO3, PSO6 CO1, CO3
SP	Slide reading and discussion (10 slidesX6 = 60)	PSO1, PSO3, PSO4, PSO6, PSO7, PSO8, PSO15 CO1, CO3, CO4, CO5
SV	Viva (15 marks)	PSO1 CO1, CO2, CO5, CO6
FT	Weighted percentile scores of Periodic Tests converted for 25 marks	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7 CO1, CO2, CO3, CO4, CO5, CO6, CO7
FC	Practical exercise activity score - 15 marks Documentations of best cases- 30 marks DIAS Score on oral pathology diagnostic care (minimum required score 1000)	PSO2, PSO3, PSO6, PSO7, PSO8, PSO13, PSO15 CO2, CO5, CO6, CO7
FRC	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO12, P013, PSO14, PSO15 CO1, CO4
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 		

Result Analysis :

**Course Details: MDS 468: BONE, ODONTOGENIC AND SALIVARY GLAND
PATHOLOGY**

Outcome Analysis

	Outcome Evaluation (100 marks) Total Score (100 Summative, 100 formative = 200 marks)	PO CO Mapping	Outcome Analysis 2021 in %
ST	EBD Concept Map (25 marks)	PSO1, PSO3, PSO6 CO1, CO3	62
SP	Slide reading and discussion (10 slidesX6 = 60)	PSO1, PSO3, PSO4, PSO6, PSO7, PSO8, PSO15 CO1, CO3, CO4, CO5	62
SV	Viva (15 marks)	PSO1 CO1, CO2, CO5, CO6	62
FT	Weighted percentile scores of Periodic Tests converted for 25 marks	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5	60
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7 CO1, CO2, CO3, CO4, CO5, CO6, CO7	60
FC	Practical exercise activity score - 15 marks Documentations of best cases- 30 marks DIAS Score on oral pathology diagnostic care (minimum required score 1000)	PSO2, PSO3, PSO6, PSO7, PSO8, PSO13, PSO15 CO2, CO5, CO6, CO7	60
FR	Research poster / paper	PSO12, P013, PSO14,	60

C	presentation / publication scores, and awards - 20 marks	PSO15 CO1, CO4	
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 			

Course Details: MDS 470 : EPITHELIAL PATHOLOGY, CONNECTIVE TISSUE PATHOLOGY AND DERMATOPATHOLOGY		
Course Outcome		
CO1	To be intutive about the development and pathogenesis of epithelial, connective tissue and dermatopathology	PO1 PSO1, PSO3, PSO4, PSO5, PSO10, PSO14
CO2	To be proficient in critical evaluation of literature and application in routine diagnosis for best patient outcome	PO1 PSO2, PSO3, PSO4, PSO8, PSO14
CO3	Competency in identifying individual epithelial, connective tissue and skin pathologies	PSO1, PSO2, PSO4,

		PSO10, PSO14
CO4	Able to use cryotome for optimal intraoperative diagnosis of epithelial malignancies and oral potentially malignant disorders	PSO6, PSO7, PSO11
CO5	Should be able to examine and take case history for common epithelial and skin related pathologies along with performing cytopathology	PSO2, PSO3, PSO4, PSO7
CO6	Be proficient in decision making regarding application of immunohistochemical techniques in soft tissue pathologies	PSO2, PSO4, PSO6, PSO8
CO7	Should be able to diagnose the pathologies on their own in stipulated time period	PSO3, PSO4, PSO10
CO8	Be skilled in documentation of special cases pertaining to pathologies of epithelial, connective tissue and skin pathologies	PSO1,PSO 6, PSO10, PSO12, PSO14

	Outcome Evaluation (200 marks) Total Score (Summative=100 marks, formative = 100 marks)	PO CO Mapping
ST	EBD Concept Map (25 marks)	PSO1, PSO3,PSO6 CO1, CO3, CO4, CO5

SP	Slide reading and discussion (10 slidesX6 = 60)	PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15 CO1, CO3, CO4, CO5
SV	Viva (15 marks)	PSO1 CO1, CO2, CO5, CO6
FT	Weighted percentile scores of Periodic Tests converted for 25 marks	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7 CO1, CO2, CO3, CO4, CO5, CO6, CO7
FC	Practical exercise activity score - 15 marks Documentations of best cases- 30 marks DIAS Score on oral pathology diagnostic care (minimum required score 20000)	PSO2, PSO3, PSO6, PSO7, PSO8, PSO13, PSO15 CO2, CO5, CO6, CO7
FRC	Research Poster / paper presentation / publication scores, and awards - 20 marks	PSO12, P013,PSO14, PSO15 CO1, CO4
Legend:		
<ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 		

RESULT ANALYSIS

**Course Details: MDS 468: EPITHELIAL PATHOLOGY, CONNECTIVE TISSUE
PATHOLOGY AND DERMATOPATHOLOGY**

Outcome Analysis

	Outcome Evaluation (100 marks) Total Score (100 Summative, 100 formative = 200 marks)	PO CO Mapping	Outcome Analysis 2021 in %
ST	EBD Concept Map (25 marks)	PSO1, PSO3, PSO6 CO1, CO3, CO4, CO5	60
SP	Slide reading and discussion (10 slides X 6 = 60)	PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15 CO1, CO3, CO4, CO5	60
SV	Viva (15 marks)	PSO1 CO1, CO2, CO5, CO6	60
FT	Weighted percentile scores of Periodic Tests converted for 25 marks	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5	68
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7 CO1, CO2, CO3, CO4, CO5, CO6, CO7	70
FC	Practical exercise activity score - 15 marks Documentations of best cases - 30 marks DIAS Score on oral pathology diagnostic care (minimum required score 1000)	PSO2, PSO3, PSO6, PSO7, PSO8, PSO13, PSO15 CO2, CO5, CO6, CO7	60
FR C	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO12, P013, PSO14, PSO15 CO1, CO4	60
Legend:			
<ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, 			

- FP FORMATIVE PRACTICAL,
- FC FORMATIVE CLINICAL
- FRC FORMATIVE RESEARCH - CO-CURRICULAR

Course Details: MDS 451 and MDS 452: GROSSING AND TISSUE PROCESSING MODULE

Course Outcome

CO1	Acquire knowledge to use gross inspection, routine histology, cytopathology and special investigations to formulate differential diagnoses and arrive at diagnoses.	PSO1, PSO2, PSO5, PSO6, PSO7, PSO9
CO2	To provide training for grossing the pathological specimens and practise tissue processing .	PSO1, PSO4, PSO 5, PSO6, PSO7
CO3	Learn to constantly update and expand your knowledge of facts, terminologies and classifications of various diseases.	PSO1, PSO2, PSO4, PSO9, PSO10
CO4	Learn to communicate your findings and conclusions clearly, in a manner useful to clinicians.	PSO7, PSO11
CO5	To learn grossing of frozen specimens, sectioning and preparation of consultation reports	PSO6, PSO7, PSO11

CO6	Be skilled to document the special cases pertaining to complex specimen including maxillectomy and mandibulectomy specimen, glossectomy, wide local excision of soft tissue specimen and radical neck dissection.	PSO1, PSO6, PSO10, PSO12, PSO14
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	Outcome Evaluation (200 marks) Total Score (Summative=100 marks, formative = 100 marks)	PO CO Mapping
ST	OBJECTIVES – 50 (50X1=50 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4
ST	ESSAY – 2 (2X15 = 30 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4
ST	SHORT NOTES – 4(4X5 = 20 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4
SP	Grossing of small specimens (20 Marks)	PSO2, PSO4, PSO7, PSO11, CO1, CO2, CO3, CO6
SP	Inking of margins (15 Marks)	PSO2, PSO4, PSO7, CO1, CO2, CO6
SP	Grossing of large specimens (20 Marks)	PSO2, PSO4, PSO7, PSO11, CO1, CO2, CO3, CO6
SP	CAP Protocol - guidelines (15 Marks)	PSO1, PSO2, PSO4, PSO7, PSO11,

		CO1, CO2, CO3, CO4, CO6
SP	Troubleshooting of errors in tissue processing (10 Marks)	PSO2, PSO6, PSO7, CO1, CO2, CO6
SV	Viva (20 marks)	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5
FT	Weighted percentile scores of Periodic Tests converted for 25 marks.	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5, CO6
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO8,
FC	Grossing and processing of specimens Journal clubs, Pedagogy, Seminar Assignments Critical appraisal Discipline and punctuality	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5, CO6
FRC	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO12, PSO13, PSO14, PSO15 CO1, CO4

Legend:

- ST SUMMATIVE THEORY,
- SP SUMMATIVE PRACTICAL,
- SV SUMMATIVE VIVA,
- FT FORMATIVE THEORY,

- FP FORMATIVE PRACTICAL,
- FC FORMATIVE CLINICAL
- FRC FORMATIVE RESEARCH - CO-CURRICULAR

Result Analysis :

Course Details: MDS 451 and MDS 452: GROSSING AND TISSUE PROCESSING MODULE			
Outcome Analysis			
	Outcome Evaluation (200 marks)	PO CO Mapping	Outcome Analysis 2021 in percentage
	Total Score - 200 (100 - Theory, 100- Practicals)		
ST	Objectives – 50 (50X1=50 marks)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4	72
ST	Essay - 2 (2X15 = 30 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4	72
ST	Short notes (Concept map) - 4 (4X5 = 20 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4	72

SV	Viva (20 marks)	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5	75
SP	PRACTICAL EXAMINATION – OSPE PATTERN	PSO1, PSO2, PSO4, PSO6, PSO7, PSO11, CO1, CO2, CO5	69
FT	Weighted percentile scores of Periodic Tests converted for 40 marks	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14 CO1, CO2, CO3, CO4, CO5, CO6	70
FT	Mean ARMS daily participation score converted for 10 marks	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO8, CO1, CO2, CO6	80

FC	Practical exercise activity score - 30 marks Grossing - 5 cases Processing - 5 cases Assisting frozen section - 1 case Ground section - 5 DIAS Score on pathological cases (minimum required score 1000)	PSO1, PSO4, PSO6, PSO11 CO1, CO2, CO3, CO4, CO5	80
FRC	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO12, PSO13, PSO14, PSO15 CO1, CO4	90
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 			

Course Details: MDS 455 and MDS 457: Oral Histology Theory and Practicals

Course Outcome		PSO mapping
CO1	A detailed understanding of the morphology of the deciduous and permanent (successional) crown and root morphology; an appreciation of the relevance of an understanding of crown and root morphology to restorative dentistry, endodontics, and oral surgery.	PSO1, PSO2, PSO3, PSO9, PSO10,
CO2	Applying concepts of development of teeth and their supporting tissues, dentinogenesis, amelogenesis, cementogenesis, in order to understand the deviation from normal with histopathological correlation.	PSO1, PSO2, PSO9, PSO10, PSO13, PSO14
CO3	Thorough knowledge on composition, structure/function relationships of dental and periodontal tissues including enamel, dentine, cementum, pulp, the periodontal ligament, and alveolar bone.	PSO1, PSO2, PSO9, PSO10, PSO13, PSO14
CO4	To decipher the theragnostic value of saliva. In depth knowledge of structure, function and histology of oral mucosa and salivary gland to ensure differentiation of normal from pathology.	PSO1, PSO2, PSO5, PSO8, PSO9, PSO10, PSO13, PSO14
CO5	Detailed preparation of slide description in order to get trained to write pathology reports independently.	PSO1, PSO2, PSO4, PSO10, PSO14

	Outcome Evaluation (200 marks) Total Score (Summative=100 marks, formative = 100 marks)	PO CO Mapping
ST	OBJECTIVES – 50 (50X1=50 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4
ST	ESSAY – 2 (2X15 = 30 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4
ST	SHORT NOTES – 4(4X5 = 20 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4
SP	PRACTICAL EXAMINATION – OSPE PATTERN -80 marks	PSO2, PSO4, PSO7, PSO11, CO1, CO2, CO3, CO4
SV	Viva (20 marks)	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5
FT	Weighted percentile scores of Periodic Tests converted for 25 marks.	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5, CO6
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO8,

FC	Journal clubs, Pedagogy, Seminar Assignments Critical appraisal Discipline and punctuality	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5
FRC	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO12, PSO13, PSO14, PSO15 CO1, CO4
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 		

Result Analysis :

Course Details: MDS 455 and MDS 457: ORAL HISTOLOGY MODULE			
Outcome Analysis			
	Outcome Evaluation (200 marks)	PO CO Mapping	Outcome Analysis 2021
	Total Score - 200 (100 - Theory, 100- Practicals)		
ST	Objectives – 50 (50X1=50 marks)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4	72

ST	Essay (CAT Format)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4	72
ST	Short notes (Concept maps)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4	72
SP	Practicals (80 marks) (Slide identification, Case scenario discussion, Unique cellular morphology of various cells, differential diagnosis)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14 CO1, CO5	80
SV	Viva (20 marks)	PSO1 CO1, CO2, CO5	80
FT	Weighted percentile scores of Periodic Tests converted for 50+20 marks	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5	70

FT	Mean ARMS daily participation score converted for 100 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO8, CO1, CO2, CO5	80
FC	Practical exercise activity score - 100 marks Documentations of best cases Clinical -1, Special case-1, Frozen section -1, ground sections-5 DIAS Score on pathological cases (minimum required score 1000).	PSO1, PSO4, PSO6, PSO11 CO1, CO2, CO3, CO4, CO5	80
FRC	Research poster / paper presentation / publication scores, and awards - 50 marks	PSO12, P013, PSO14, PSO15 CO1, CO4	90
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 			

Course Details: MDS450 and 459 : MOLECULAR BIOLOGY, GENETICS AND IMMUNOLOGY-THEORY and PRACTICALS

Course Outcome		PSO Mapping
CO1	Gain knowledge regarding DNA isolation using various technologies	PSO1, PSO2, PSO9, PSO10
CO2	To be able to perform DNA isolation, RNA isolation, PCR for the diagnosis of head and neck pathologies	PSO5, PSO7, PSO14
CO3	To be able to refer to perform advanced genetic screening to correlate with histopathology for theragnostics in oncopathology	PSO6, PSO3, PSO4, PSO8
CO4	Proficiency in usage of recent advances in technologies including latest softwares for analysis of whole genome sequencing	PSO11, PSO12
CO5	Should be able to identify the troubleshooting of outcome	PSO13, PSO15

	Outcome Evaluation (200 marks) Total Score (Summative=100 marks, formative = 100 marks)	PO CO Mapping
ST	OBJECTIVES – 50 (50X1=50 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9,

		PSO10, PSO11, PSO14, CO1, CO3, CO4
ST	ESSAY – 2 (2X15 = 30 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4
ST	SHORT NOTES – 4(4X5 = 20 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4
SP	PCR/Genomic DNA isolation (80 marks)	PSO2, PSO4,PSO7,PSO11, CO1, CO2,CO3
SV	Viva (20 marks)	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5
FT	Weighted percentile scores of Periodic Tests converted for 25 marks.	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO8,
FC	Grossing and processing of specimens Journal clubs, Pedagogy, Seminar Assignments Critical appraisal	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5

	Discipline and punctuality	
FRC	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO12, PSO13, PSO14, PSO15 CO1, CO4
Legend:		
<ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 		

Result Analysis :

Course Details: MDS450 and 459 : MOLECULAR BIOLOGY, GENETICS, IMMUNOLOGY AND BIOINFORMATICS -THEORY and PRACTICALS			
Outcome Analysis			
	Outcome Evaluation (200 marks)	PO CO Mapping	Outcome Analysis 2021 in %
	Total Score - 200 (100 - Theory, 100- Practicals)		
ST	Objectives – 50 (50X1=50 marks)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4	70
ST	Essay - 2 (2X15 = 30 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4	73

ST	Short notes (Concept map) - 4 (4X5 = 20 MARKS)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4	74
SV	Viva (20 marks)	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5	74
SP	PCR/ Genomic DNA isolation	PSO1, PSO2, PSO4, PSO6, PSO7, PSO11, CO1, CO2, CO3, CO4	69
FT	Weighted percentile scores of Periodic Tests converted for 40 marks	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14 CO1, CO2, CO3, CO4, CO5	80
FT	Mean ARMS daily participation score converted for 10 marks	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO8, CO1, CO2, CO6	80

FC	Practical exercise activity score - 30 marks DIAS Score on pathological cases (minimum required score 1000)	PSO1, PSO4, PSO6, PSO11 CO1, CO2, CO3, CO4, CO5	90
FRC	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO12, PSO13, PSO14, PSO15 CO1, CO4	85
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 			

Course Details: MDS453 MDS 454: GENERAL HISTOLOGY-THEORY and PRACTICALS

Course Outcome	PSO Mapping
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CO1	In depth knowledge of the development and morphology for anatomy and histology of human tissues and organ systems	PSO9, PSO10
CO2	To be proficient in critical evaluation of literature and application in routine diagnosis for best patient outcome	PSO12, PSO14, PSO15
CO3	Understanding the microscopic appearance of different organs morphology and histology through slide descriptions and open discussions	PSO1, PSO2, PSO3, PSO4
CO4	Should be able to clinically evaluate the various organs and understand histology in relations to the principles of physiology, biochemistry and molecular biology	PSO2, PSO3, PSO4, PSO6, PSO12
CO5	Be skilled to document the histology of whole human body tissues	PSO13

	Outcome Evaluation (200 marks) Total Score (Summative=100 marks, formative = 100 marks)	PO CO Mapping
ST	OBJECTIVES – 50 (50X1=50 MARKS)	PO1 PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4
ST	ESSAY – 2 (2X15 = 30 MARKS)	PO1 PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4

ST	SHORT NOTES – 4(4X5 = 20 MARKS)	PO1 PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO3, CO4
SP	SLIDE READING AND DISCUSSIONS (80)	PO2 PSO2, PSO4, PSO7, PSO11, CO1, CO2, CO3, CO4, CO5
SV	Viva (20 marks)	PO1 PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5
FT	Weighted percentile scores of Periodic Tests converted for 25 marks.	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO8,
FC	Grossing and processing of specimens Journal clubs, Pedagogy, Seminar Assignments Critical appraisal Discipline and punctuality	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5

FRC	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO12, PSO13, PSO14, PSO15 CO1, CO4
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 		

Result Analysis :

Course Details: MDS453 MDS 454: GENERAL HISTOLOGY-THEORY and PRACTICALS			
Outcome Analysis			
	Outcome Evaluation (200 marks) Total Score - 200 (100 - Theory, 100- Practicals)	PO CO Mapping	Outcome Analysis 2021 in %

ST	Objectives – 50 (50X1=50 marks)	PO1 PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4	72
ST	Essay (CAT Format)	PO1 PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4	72
ST	Short notes (Concept maps)	PO1 PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4	72
SP	Practicals (80 marks) (Slide identification, Case scenario discussion, Unique cellular morphology of various cells, differential diagnosis)	PO2 PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14 CO1, CO5	80
SV	Viva (20 marks)	PSO1 CO1, CO2, CO5	80

FT	Weighted percentile scores of Periodic Tests converted for 50+20 marks	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5	70
FT	Mean ARMS daily participation score converted for 100 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO8, CO1, CO2, CO5	80
FC	Practical exercise activity score Documentations of best cases Clinical -1, Special case-1, Frozen section -1, ground sections-5 DIAS Score on pathological cases (minimum required score 1000).	PSO1, PSO4, PSO6, PSO11 CO1, CO2, CO3, CO4, CO5	80
FRC	Research poster / paper presentation / publication scores, and awards	PSO12, P013, PSO14, PSO15 CO1, CO4	90

Legend:

- ST SUMMATIVE THEORY,
- SP SUMMATIVE PRACTICAL,
- SV SUMMATIVE VIVA,
- FT FORMATIVE THEORY,
- FP FORMATIVE PRACTICAL,
- FC FORMATIVE CLINICAL
- FRC FORMATIVE RESEARCH - CO-CURRICULAR

Course Details: MDS 462: PATHOLOGY LABORATORY ADMINISTRATION

Course Outcome		PSO Mapping
CO1	To be able to understand interpersonal roles of manager and scientific management	PSO9, PSO10
CO2	Gain insight into total productive maintenance approach	PSO12, PSO14, PSO15
CO3	To provide upward communication flow in any situation and recruitment PSOpolicy	PSO1, PSO2, PSO3, PSO4
CO4	To be updated on Government PSOpolicies that help in industry	PSO8, PSO11, PSO12

	Outcome Evaluation (200 marks) Total Score (Summative=100 marks, formative = 100 marks)	PO CO Mapping
ST	Objectives (1x50=50 marks)	PSO1, PSO14, CO1, CO2
ST	Short notes (4x5=20 marks)	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4
ST	Essay (15X2=30 marks)	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4
FT	Weighted percentile scores of Periodic Tests converted for 25 marks	PSO1, CO1, CO2, CO4
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO1, CO2, CO3, CO4
FC	Practical exercise activity score - 15 marks Documentations of best cases- 30 marks DIAS Score on oral pathology diagnostic care (minimum required score 1000)	PSO2, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13
FRC	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO1, PSO14, PSO15 CO1, CO4
Legend:		
<ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 		

Result Analysis :

Course Details: MDS 462: PATHOLOGY LABORATORY ADMINISTRATION**Outcome Analysis**

	Outcome Evaluation (200 marks)	PO CO Mapping	Outcome Analysis 2021 in %
	Total Score - 200 (100 - Theory, 100- Practicals)		
ST	Short note preparation (25 marks)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4	72
ST	Management and communication skills (75 marks)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14 CO1, CO5	80
FT	Weighted percentile scores of Periodic Tests converted for 50+20 marks	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5	70
FT	Mean ARMS daily participation score converted for 100 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO8, CO1, CO2, CO5	80

FC	<p>Exercise activity score</p> <p>DIAS Score on pathological cases (minimum required score 1000).</p>	<p>PSO1, PSO4, PSO6, PSO11</p> <p>CO1, CO2, CO3, CO4, CO5</p>	80
FRC	<p>Research poster / paper presentation / publication scores, and awards</p>	<p>PSO12, P013, PSO14, PSO15</p> <p>CO1, CO4</p>	90
<p>Legend:</p> <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 			

Course Details: MDS 463: SPECIAL STAINS

Course Outcome		PSO Mapping
CO1	Gain insight into the Utility of different stains in diagnosis of various lesions	PSO1, PSO3
CO2	To be proficient in critical evaluation of literature and use of the various special stains in research and diagnosis.	PSO2, PSO5
CO3	Thorough knowledge of chemical composition of stains and their affinity to tissues	PSO7, PSO4
CO4	Ability to prepare histological stains based on different concentrations and compositions	PSO6, PSO14, PSO12
CO5	To apply the knowledge of special stains in diagnosis of different case scenarios	PSO2, PSO12

	Outcome Evaluation (200 marks)	PO CO Mapping
	Total Score (Summative=100 marks, formative = 100 marks)	
SP	Stain preparation (25 marks)	PSO1, PSO2, CO1, CO2, CO5
SP	Staining procedure, Slide reading and discussion (10 slidesX6 = 60 marks)	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4, CO5
SV	Viva (15 marks)	PSO1, CO1, CO2, CO5,

FT	Weighted percentile scores of Periodic Tests converted for 25 marks	PSO1, CO1, CO2, CO5
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO1, CO2, CO3, CO4, CO5
FC	Practical exercise activity score - 15 marks Documentations of different cases diagnosed using special stains- 30 marks DIAS Score on oral pathology diagnostic care (minimum required score 1000)	PSO2, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4, CO5
FRC	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO14, PSO15, CO1, CO5
Legend:		
<ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 		

Result analysis:

Course Details: MDS 463: SPECIAL STAINS			
Outcome Analysis			
	Outcome Evaluation (200 marks)	PO CO Mapping	Outcome Analysis 2021 in %
	Total Score - 200 (100 - Theory, 100- Practicals)		

SP	Stain preparation (25 marks)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4	72
SP	Staining procedure, Slide reading and discussion (10 slidesX6 = 60 marks)	PSO1, PSO2, PSO4, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4	72
SV	Viva (15 marks)	PSO1 CO1, CO2, CO5	80
FT	Weighted percentile scores of Periodic Tests converted for 50+20 marks	PSO1, PSO2, PSO4, PSO6, PSO7, PSO8, PSO9, PSO10, PSO11, PSO14, CO1, CO2, CO3, CO4, CO5	70
FT	Mean ARMS daily participation score converted for 100 marks.	PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO8, CO1, CO2, CO5	80
FC	Practical exercise activity score DIAS Score on pathological cases (minimum required score 1000)	PSO1, PSO4, PSO6, PSO11 CO1, CO2, CO3, CO4, CO5	80

FRC	Research poster / paper presentation / publication scores, and awards	PSO12, P013, PSO14, PSO15 CO1, CO4	90
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 			

Course Details: MDS 460, MDS 461 Cytopathology, Hematopathology and Clinical microbiology		
Course Outcome		PSO mapping
CO1	To acquire the skills of Exfoliative and aspiration cytology.	PSO7
CO2	To have an in-depth knowledge of the main cyto-histopathological diagnostic techniques and ancillary techniques.	PSO1, PSO2

CO3	Should be able to select the cytological techniques to be applied to different types of samples.	PSO3
CO4	To understand and recognize the pathologies behind benign and malignant disorders of erythrocytes, leucocytes, thrombocytes and the bone marrow.	PSO3 ; PSO4
CO5	To acquire in depth knowledge about the pathology and pathophysiology of hematological disorders.	PSO5
CO6	To read and evaluate laboratory values from routine blood examination and be able to differentiate between pathologies.	PSO3
CO7	To arrive at a differential diagnosis based on clinical examination and laboratory values.	PSO4
CO8	To have a basic understanding of the treatment protocols which are in place for hematology.	PSO7
CO9	To know the essentials of disinfection and sterility, Classification, important characters, isolation and identification of microorganisms.	PSO7
CO10	Steps in the collection of specimen and microbiological investigations in common diseases due to microbial, parasitic and fungal infections to arrive at the correct diagnosis.	PSO7; PSO11

	Outcome Evaluation (Summative= 200; Formative = 100)	PO CO Mapping
ST	CAT on select topics - 25 marks Essays - 25 marks Short notes 5x5 - 25 marks Objectives 25x1 - 25 marks	PSO1, PSO2,PSO5 CO2, CO3, CO4,CO5,CO7,CO9,C010
SP	Slide interpretation- 20 marks Preparing, staining and slide reading of smears- 20 marks Diagnostic algorithm of select cases/ Haematological case scenarios- 15 marks Cytological techniques to be adopted for given case scenarios- 10 marks Staining, interpretation and diagnosis of microbiological specimen- 15 marks	PSO3, PSO4,PSO5 CO1, CO2, CO3, CO4,CO5,CO6,CO7,CO10
SV	Viva -20 marks	PSO4,PSO5,PSO8,PSO10,PS O12 CO2, CO3, CO4, CO5, CO6,CO7, CO8, CO9, CO10

FT	<p>Converted to 40 marks</p> <p>Slide discussion and description- 25</p> <p>Hematology case studies-25</p> <p>Presentation on topics- 25</p> <p>Journal clubs- 25</p>	<p>PSO3,PSO4,PSO5,PSO6,PSO8</p> <p>CO2, CO3, CO4, CO5, CO6, CO7, CO8, CO9</p>
FP	<p>Converted to 40 marks</p> <p>Special staining and immunohistochemistry for selected cases - 50</p> <p>Preparing smears, staining and reading - 50</p>	<p>PSO2,PSO6,PSO7</p> <p>CO1, CO2, CO3, CO10</p>
FC	<p>Converted to 20 marks</p> <p>History taking- 25</p> <p>Discipline and punctuality-25</p> <p>Submitting activities on time-25</p> <p>Interactive discussions during class-25</p>	<p>PSO1, PSO7,</p> <p>CO4</p>

Result analysis

	Outcome Evaluation	PO CO Mapping	Outcome analysis 2021 in %
	(Summative= 200; Formative = 100)		

ST	<p>CAT on select topics - 25 marks</p> <p>Essays - 25 marks</p> <p>Short notes 5x5 - 25 marks</p> <p>Objectives 25x1 - 25 marks</p>	<p>PSO1, PSO2,PSO5</p> <p>CO2, CO3, CO4,CO5,CO7,CO 9,C010</p>	77
SP	<p>Slide interpretation- 20 marks</p> <p>Preparing, staining and slide reading of smears- 20 marks</p> <p>Diagnostic algorithm of select cases/ Haematological case scenarios- 15 marks</p> <p>Cytological techniques to be adopted for given case scenarios- 10 marks</p> <p>Staining, interpretation and diagnosis of microbiological specimen- 15 marks</p>	<p>PSO3, PSO4,PSO5</p> <p>CO1, CO2, CO3, CO4,CO5,CO6,CO 7,CO10</p>	84
SV	Viva -20 marks	<p>PSO4,PSO5,PSO 8,PSO10,PSO12</p> <p>CO2, CO3, CO4, CO5, CO6,CO7, CO8, CO9, CO10</p>	80

<p>FT</p>	<p>Converted to 40 marks</p> <p>Slide discussion and description-25</p> <p>Hematology case studies-25</p> <p>Presentation on topics- 25</p> <p>Journal clubs- 25</p>	<p>PSO3,PSO4,PSO5,PSO6,PSO8</p> <p>CO2, CO3, CO4, CO5, CO6, CO7, CO8, CO9</p>	<p>70</p>
<p>FP</p>	<p>Converted to 40 marks</p> <p>Special staining and immunohistochemistry for selected cases - 50</p> <p>Preparing smears, staining and reading - 50</p>	<p>PSO2,PSO6,PSO7</p> <p>CO1, CO2, CO3, CO10</p>	<p>72</p>
<p>FC</p>	<p>Converted to 20 marks</p> <p>History taking- 25</p> <p>Discipline and punctuality-25</p> <p>Submitting activities on time-25</p> <p>Interactive discussions during class-25</p>	<p>PSO1, PSO7,</p> <p>CO4</p>	<p>70</p>

Course Details: MDS 472: HARD AND SOFT TISSUE INTERPRETATION FOR CLINICAL RESEARCH

Course Outcome		PSO Mapping
CO1	Gain insight into the sample preparation for hard and soft tissue, microscopic interpretation and software related image analysis.	PSO9, PSO1,PSO2,PSO3, PSO4
CO2	To be proficient in critical evaluation of literature and use of knowledge in research and diagnosis.	PSO12, PSO14, PSO15
CO3	Knowledge of preparation of tissues for microscopy, Diaphonisation and blunderbuss canals for studying pulp through lens	PSO5, PSO7, PSO6
CO4	Should be able to grade and analyze the slides with normal and disease related changes in hard and soft tissues according to recent microscopy and softwares.	PSO4,PSO6, PSO7,PSO12
CO5	To make ground sections, view and interpret under polarising microscopy, special staining in different concentrations and slides mastery on hard and soft tissues.	PSO6, PSO14, PSO12
CO6	Be skilled to document the special cases pertaining to histology of soft and hard tissue specimen with immunohistochemical analysis.	PSO13

	Outcome Evaluation (200 marks) Total Score (Summative=100 marks, formative = 100 marks)	PO CO Mapping
SP	EBD Concept Map on electron microscopy (25 marks)	PSO1, PSO3, CO1, CO2, CO3,CO4,CO6
SP	Documentation and discussion (60 marks)	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4, CO5,CO6
SV	Viva (15 marks)	PSO1, CO1, CO2, CO5,CO6
FT	Weighted percentile scores of Periodic Tests converted for 25 marks	PSO1, CO1, CO2, CO5,CO6
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO1, CO2, CO3, CO4, CO5,CO6
FC	Practical exercise activity score - 15 marks Documentations of best cases- 30 marks DIAS Score on oral pathology diagnostic care (minimum required score 1000)	PSO2, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4, CO5,CO6
FRC	Research poster / paper presentation / publication scores, and awards - 20 marks	PSO14, CO1, CO5,CO6
Legend:		
<ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 		

Result analysis:

Course Details: MDS 472: HARD AND SOFT TISSUE INTERPRETATION FOR CLINICAL RESEARCH			
Outcome Analysis			
	Outcome Evaluation (200 marks)	PO CO Mapping	Outcome Analysis 2021 in %
	Total Score - 200 (100 - Theory, 100- Practicals)		
SP	EBD Concept Map on electron microscopy (25 marks)	PSO1, PSO3, CO1, CO2, CO3,CO4,CO6	72
SP	Documentation and discussion (60 marks)	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4, CO5,CO6	72
SV	Viva (15 marks)	PSO1, CO1, CO2, CO5,CO6	80
FT	Weighted percentile scores of Periodic Tests	PSO1, CO1, CO2, CO5,CO6	70

	converted for 50+20 marks		
FT	Mean ARMS daily participation score converted for 100 marks.	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO1, CO2, CO3, CO4, CO5,CO6	80
FC	Practical exercise activity score DIAS Score on pathological cases (minimum required score 1000)	PSO2, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4, CO5,CO6	80
FRC	Research poster / paper presentation / publication scores, and awards	PSO14, CO1, CO5,CO6	90
Legend:			
<ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 			

Course Details: MDS 466 AND MDS 467: Forensic Odontology Theory and Forensic Odontology Practical		
Course Outcome		
CO1	Comprehensive knowledge about Forensic Odontology and its implementation in dental practice	PSO1, PSO2, PSO3
CO2	Gain insight on critical appraisal of current trends in forensic odontology.	PSO8, PSO10
CO3	Proficient knowledge on recent methods of gender and age determination using manual methods and software.	PSO8, PSO10
CO4	Skill to reproduce the missing data and evidence in “Court of Law” and trained in handling forensic evidence legal cases like Road Traffic Accident (RTA), Murder, Hanging and other Medico Legal Cases.	PSO11, PSO14
CO5	To be skilled in facial reconstruction methods using manual techniques and recent softwares	PSO13, PSO14
CO6	Trained in report writing with detailed explanation of the forensic case undertaken for the analysis with special emphasis on dental aids.	PSO1, PSO2, PSO3, PSO14

CO7	Ability to identify cases of domestic violence including child abuse, elderly abuse and spousal abuse using the knowledge of oral clinical signs including bite marks and behavioural changes.	PSO13, PSO14, PSO15
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	Outcome Evaluation (200 Marks) Total Score (100 Summative theory + 100 formative)	PO CO Mapping
MDS 466 and 467	MDS – Forensic Odontology – Fellowship Programme Summative	
ST	1. Objectives (90 x 0.5 = 45 marks)	PSO1, PSO2, PSO4, PSO5, PSO13, PSO14, PSO15
ST	2. Concept Mapping (4 x 5 = 20 marks)	CO1, CO2, CO3, CO4
SP	3. EBD (1 X 5 = 5 marks)	
	4. Viva (20 Marks)	
	5. Role Play = 10 Marks	
	6. Practicals = 100 Marks	PSO1, PSO2, PSO6, PSO10, PSO11, PSO13
	Spotters – 80 marks	
	Viva – 20 marks	
SV		CO2, CO5, PSO1, PSO2.PSO14
	Formative Total = 100 marks	CO1,CO2,C03,CO4

FT		
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	Outcome Evaluation (200 Marks) Total Score (200 Summative)	PO CO Mapping	Outcome Analysis 2021 IN %
MDS 466 and 467	MDS – Forensic Odontology – Fellowship Programme Summative		
ST	1. Objectives (90 x 0.5 = 45 marks)	PSO1, PSO2, PSO4, PSO5, PSO13, PSO14, PSO15	84%
ST	2. Concept Mapping (4 x 5 = 20 marks)		
SV	3. EBD (1 X 5 = 5 marks)	CO1, CO2, CO3, CO4	
	4. Viva (20 Marks)		
	5. Role Play = 10 Marks		87%
SP	6. Practicals = 100 Marks	PSO1, PSO2, PSO6, PSO10, PSO11, PSO13	
	Spotters – 80 marks		
	Viva – 20 marks	CO2, CO5, PSO1,	
FT	Formative Total = 100 marks	PSO2.PSO14	

		CO1,CO2,C03,CO4	80%
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Course Details: MDS 449: TISSUE ENGINEERING		
Course Outcome		PO CO Mapping
CO1	Gain insight into the basics and application of tissue engineering and stem cells in dentistry	PSO9,PSO1,PSO2, PSO3,PSO4
CO2	To be proficient in critical evaluation of literature and use of knowledge in tissue engineering.	PSO12, PSO14, PSO15
CO3	Ability to demonstrate cell lines of fibroblasts / epithelial origin and knowledge of co-culture using stem cells and tissue engineering.	PSO5, PSO7, PSO6
CO4	Should be able to analyze the micro mass cultures in dentistry according to recent advances in tissue engineering.	PSO4, PSO6, PSO7,PSO12
CO5	Ability to independently conduct tissue engineering courses and cell culture.	PSO6, PSO14, PSO12

CO6	Be skilled to document unique characteristics of cell culture.	PSO13
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	Outcome Evaluation (200 marks) Total Score (Summative=100 marks, formative = 100 marks)	PO CO Mapping
SP	Hands on in plating of cell culture procedures (25 marks)	PSO1, PSO3, CO1, CO2, CO3,CO4,CO5
SP	Documentation and discussion (60 MARKS)	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4, CO5,CO6
SV	Viva (15 marks)	PSO1, CO1, CO2, CO5,CO6
FT	Weighted percentile scores of Periodic Tests converted for 25 marks	PSO1, CO1, CO2, CO5,CO6
FT	Mean ARMS daily participation score converted for 10 marks.	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO1, CO2, CO3, CO4, CO5,CO6
FC	Practical exercise activity score - 15 marks Documentations of best cases- 30 marks DIAS Score on oral pathology diagnostic care (minimum required score 20000)	PSO2, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4, CO5,CO6
FRC	Research poster / paper presentation / publication	PSO14,

	scores, and awards - 20 marks	CO1, CO5
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 		

Result analysis

Course Details: MDS 449: TISSUE ENGINEERING			
Outcome Analysis			
	Outcome Evaluation (200 marks)	PO CO Mapping	Outcome Analysis 2021 in %
	Total Score - 200 (100 - Theory, 100- Practicals)		
SP	Hands on in plating of cell culture procedures (25 marks)	PSO1, PSO3, CO1, CO2, CO3,CO4,CO5	72
SP	Documentation and discussion (60 marks)	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4, CO5,CO6	72

SV	Viva (15 marks)	PSO1, CO1, CO2, CO5,CO6	80
FT	Weighted percentile scores of Periodic Tests converted for 50+20 marks	PSO1, CO1, CO2, CO5,CO6	70
FT	Mean ARMS daily participation score converted for 100 marks.	PSO1, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO1, CO2, CO3, CO4, CO5,CO6	80
FC	Practical exercise activity score DIAS Score on pathological cases (minimum required score 1000)	PSO2, PSO3, PSO4, PSO5, PSO6, PSO7, PSO8, PSO13, PSO15, CO2, CO3, CO4, CO5,CO6	80
FRC	Research poster / paper presentation / publication scores, and awards	PSO14, CO1, CO5,CO6	90

<p>Legend:</p> <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 	
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Course Details: MDS471 -ORAL BIOLOGY		
Course Outcome		PO CO Mapping
CO1	Obtain understanding of the biology of the oral cavity and developing craniofacial region and the interactions between oral and systemic health	PSO9, PSO1,PSO2, PSO3,PSO1 0
CO2	Gain insights into molecular basis of oral diseases.	PSO12, PSO14, PSO15
CO3	To be able to perform biomedical research related to all branches of dental sciences.	PSO5, PSO7, PSO6

CO4	To obtain knowledge in basic, clinical and translational dental and medical research.	PSO4,PSO6, PSO7,PSO12
CO5	Gain broad understanding of modern biochemical research which is the basis for clinical therapies, and the opportunity to contribute to development of a novel therapy.	PSO6, PSO14, PSO12
	<p>MDS471- ORAL BIOLOGY</p> <p>Outcome Evaluation (300 marks)</p> <p>Total Score -100 Summative Theory , 200 Formative = 300 marks</p>	PO CO Mapping
ST	Concept Map (4 x 5 = 20 marks)	PSO2, PSO3, PSO4, PSO7, CO1, CO2, CO5
ST	EBD Concept Map (1 x 5 = 5 marks)	PSO2, PSO3 PSO9, CO1, CO5
ST	Objectives (90 x 0.5 = 45 marks)	PSO1, PSO3, PSO4, PSO5, PSO6, PSO8,

		PSO9, PSO10, CO1, CO2, CO3, CO4, CO5,	
FT	Mean ARMS daily participation score converted for 100 marks.	PSO1, PSO2, PSO3, PSO4, PSO5, PSO6, PSO7, PSO9, PSO10, CO1, CO2, CO3, CO4, CO5	
FC	Practical exercise activity score - 100 marks (Developmental biology, biomechanics, biomaterial characterization, Saliva diagnostics)	PSO2, PSO4, PSO8, PSO9, PSO10, CO1, CO3, CO4, CO5	
FRC	Research Poster / paper presentation / publication scores, and awards - 50 marks	PSO8, PSO7, PSO10, CO3, CO5	

Legend:

- ST SUMMATIVE THEORY,
- SP SUMMATIVE PRACTICAL,
- SV SUMMATIVE VIVA,
- FT FORMATIVE THEORY,
- FP FORMATIVE PRACTICAL,
- FC FORMATIVE CLINICAL
- FRC FORMATIVE RESEARCH - CO-CURRICULUM

Result Analysis

Course Details: MDS471- ORAL BIOLOGY			
Outcome Analysis			
	Outcome Evaluation (500 marks) Total Score (200 Summative, 300 formative = 500 marks)	PO CO Mapping	Outcome Analysis 2021 IN %
ST	4 Short (4 x 5= 20 marks) + 2 essay (2 x 15 = 30 marks)	PSO2, PSO3, PSO4, PSO7, CO1, CO2, CO5	76
ST	Objectives (50 x 1 = 50 marks)	PSO1, PSO3, PSO4, PSO5, PSO6, PSO8, PSO9, PSO10, CO1, CO2, CO3, CO4, CO5	76

FT	Weighted percentile scores of Periodic Tests converted for 50 marks	PSO1, PSO2, PSO3, PSO4, PSO5, PSO6, PSO7, PSO9, PSO10, CO1, CO2, CO3, CO4, CO5	80
F C	Practical exercise activity score - 50 marks	PSO8, PSO7, PSO10, CO3, CO5	90
Legend: <ul style="list-style-type: none"> · ST SUMMATIVE THEORY, · SP SUMMATIVE PRACTICAL, · SV SUMMATIVE VIVA, · FT FORMATIVE THEORY, · FP FORMATIVE PRACTICAL, · FC FORMATIVE CLINICAL · FRC FORMATIVE RESEARCH - CO-CURRICULAR 			

Course Details: MDS464, MDS465: Microscopy and Immunohistochemistry

Course Outcome

CO1	Should have knowledge about various types of microscope	PSO1, PSO6, PSO7, PSO11, PSO12, PSO14
CO2	Should be able to communicate the principles of optics that apply to microscopy.	PSO1, PSO6, PSO7, PSO11, PSO12, PSO14

CO3	Should demonstrate skill in the proper utilization of a light microscope.	PSO1, PSO6, PSO7, PSO11, PSO12, PSO14
CO4	Should acquire skill in the use of ocular and stage micrometers for measurements of cell size.	PSO1, PSO6, PSO12
CO5	Should have knowledge about the principles of immunohistochemistry.	PSO1, PSO6, PSO7, PSO11, PSO12, PSO14
CO6	Able to perform immunohistochemistry.	PSO1, PSO6, PSO14
CO7	Able to analyze how factors such as fixation, processing, section cutting and slide drying critically influence immunohistochemistry	PSO1, P06
CO8	Should demonstrate a critical understanding of the utility and importance of immunohistochemistry in disease diagnosis.	PSO6, PSO14
CO9	Ability to identify the utilization of microscopy in research in the field of oral diseases.	PSO12

	Outcome Evaluation (300 marks) Total Score (200 Summative, 100 formative = 300 marks)	PO CO Mapping
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ST	4 Short (4 x 5= 20 marks) + 2 essay (2 x 15 = 30 marks)	PSO1, PSO2, PSO5, PSO7, CO2, CO5, CO8,
ST	Objectives (50 x 1 = 50 marks)	PSO1, PSO2, PSO3, PSO6, PSO7, CO1, CO2, CO5, CO8
SP	Practicals (100 marks) (Microscope components, Immunohistochemistry identification, diagnosis, Use and handling of microscope, Viva)	PSO1, PSO6, PSO11, PSO14, CO3, CO4, CO5, CO6, CO7, CO8, CO9
FT	Weighted percentile scores of Periodic Tests converted for 50 marks	PSO1, PSO2, PSO5, PSO6, PSO7, CO1,CO2,CO5
FC	Practical exercise activity score - 50 marks Documentations of use of microscopy in histopathology reporting, IHC stain of tissue, interpretation, and diagnosis	PSO1, PSO6, PSO7, PSO11, PSO14, CO3, CO4,CO5, CO6, CO7, CO8, CO9

Legend:

- ST SUMMATIVE THEORY,
- SP SUMMATIVE PRACTICAL,
- SV SUMMATIVE VIVA,
- FT FORMATIVE THEORY,
- FP FORMATIVE PRACTICAL,
- FC FORMATIVE CLINICAL
- FRC FORMATIVE RESEARCH - CO-CURRICULAR

Result Analysis

Course Details: MDS464, MDS465: Microscopy and Immunohistochemistry			
Outcome Analysis			
	Outcome Evaluation (500 marks) Total Score (200 Summative, 300 formative = 500 marks)	PO CO Mapping	Outcome Analysis 2021 IN %
ST	4 Short (4 x 5= 20 marks) + 2 essay (2 x 15 = 30 marks)	PSO1, PSO2, PSO5, PSO7, CO2, CO5, CO8,	84
ST	Objectives (50 x 1 = 50 marks)	PSO1, PSO2, PSO3, PSO6, PSO7, CO1, CO2, CO5, CO8	84

S P	Practical (100 marks) (Microscope components, immunohistochemistry identification, diagnosis, Use and handling of microscope + viva)	PSO1, PSO4, PSO6, PSO11, PSO14, CO3, CO4, CO5, CO6, CO7, CO8, CO9	80
FT	Weighted percentile scores of Periodic Tests converted for 50 marks	PSO1, PSO2, PSO5, PSO6, PSO7, CO1, CO2, CO5	89
F C	Practical exercise activity score - 50 marks Documentations of use of microscopy in histopathology reporting, IHC stain of tissue, interpretation, and diagnosis	PSO1, PSO6, PSO7, PSO11, PSO14, CO3, CO4, CO5, CO6, CO7, CO8, CO9	89
Legend: <ul style="list-style-type: none"> · ST SUMMATIVE THEORY, · SP SUMMATIVE PRACTICAL, · SV SUMMATIVE VIVA, · FT FORMATIVE THEORY, · FP FORMATIVE PRACTICAL, · FC FORMATIVE CLINICAL · FRC FORMATIVE RESEARCH - CO-CURRICULAR 			

Course Details: MDS024 - Paper - I	
Course Outcome	PO mapping

CO1	To have thorough theoretical knowledge about all aspects of Oral Pathology, Oral microbiology and Oral Oncology.	PO1, PO5, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14
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	Outcome Evaluation (100 marks)	PO CO Mapping
ST	Concept Map (4 x 5 = 20 marks)	PO1, PO5 PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1
ST	Critical Appraisal Test (2 x 15 = 30 marks)	PO1, PO5, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1
ST	Objectives (50 x 1 = 50 marks)	PO1, PO5, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1
Legend:		
<ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • FT FORMATIVE THEORY, 		

	Outcome Evaluation (200 marks)	PO CO Mapping	Outcome Analysis 2021
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ST	Concept Map (4 x 5 = 20 marks)	PO1, PO5, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1	83%
ST	Critical Appraisal Test (2 x 15 = 30 marks)	PO1, PO5, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1	83%
ST	Objectives (50 x 1 = 50 marks)	PO1, PO5, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1	83%
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • FT FORMATIVE THEORY, • FRC FORMATIVE RESEARCH - CO-CURRICULAR 			

Course Details: MDS034 - Paper - II		
Course Outcome		PO mapping
CO1	To have thorough knowledge about various lab techniques and advanced diagnostic methods.	PO1 PSO6, PSO7, PSO10, PSO11

	Outcome Evaluation (100 marks)	PO CO Mapping
ST	Concept Map (4 x 5 = 20 marks)	PO1 PSO6, PSO7, PSO8, PSO9 CO1
ST	Critical Appraisal Test (2 x 15 = 30 marks)	PO1 PSO6, PSO7, PSO8, PSO9 CO1
ST	Objectives (50 x 1 = 50 marks)	PO1 PSO6, PSO7, PSO8, PSO9 CO1
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • FT FORMATIVE THEORY, 		

	Outcome Evaluation (100 marks)	PO CO Mapping	Outcome Analysis 2021
ST	Concept Map (4 x 5 = 20 marks)	PO1 PSO6, PSO7, PSO8, PSO9 CO1	65%
ST	Critical Appraisal Test (2 x 15 = 30 marks)	PO1 PSO6, PSO7, PSO8, PSO9 CO1	65%
ST	Objectives (50 x 1 = 50 marks)	PO1 PSO6, PSO7, PSO8, PSO9 CO1	65%
Legend:			

- ST SUMMATIVE THEORY,
- FT FORMATIVE THEORY,

**Course Details:
MDS044 - Paper - III**

Course Outcome		PO mapping
CO1	Thorough understanding of pathogenesis, diagnosis, theoretical aspects and critical analysis in oral and maxillofacial pathology.	PO1, PSO1,PO3, PSO1, PSO2, PSO4,PSO5, PSO10,PSO11

	Outcome Evaluation (100 marks)	PO CO Mapping
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO1,PO3, PSO1, PSO2, PSO4,PSO5, PSO10,PSO11 CO1
ST	Critical Appraisal Test (2 x 15 = 30 marks)	PO1, PSO1,PO3, PSO1, PSO2, PSO4,PSO5, PSO10,PSO11 CO1
ST	Objectives (50 x 1 = 50 marks)	PO1, PSO1,PO3, PSO1, PSO2, PSO4,PSO5, PSO10,PSO11 CO1

Legend:

- ST SUMMATIVE THEORY,
- FT FORMATIVE THEORY,

	Outcome Evaluation (100 marks)	PO CO Mapping	Outcome Analysis 2021 IN %
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO1,PO3, PSO1, PSO2, PSO4,PSO5, PSO10,PSO11 CO1	60
ST	Critical Appraisal Test (2 x 15 = 30 marks)	PO1, PSO1,PO3, PSO1, PSO2, PSO4,PSO5, PSO10,PSO11 CO1	60
ST	Objectives (50 x 1 = 50 marks)	PO1, PSO1,PO3, PSO1, PSO2, PSO4,PSO5, PSO10,PSO11 CO1	60
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • FT FORMATIVE THEORY, 			

Course Details: MDS054 - Practical		
Course Outcome		PO mapping
CO1	Thorough knowledge of practical demonstration of special stains, routine staining, IHC, hematology, clinical history taking and case discussion.	PO1, PO2, PO4, PO5 PSO1, PSO3,PSO7,PS O8,PSO10,PSO 11,PSO12 PSO1, PSO2, PSO3, PSO4,

		PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14
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	Outcome Evaluation (100 marks)	PO CO Mapping
SP	Practicals (80 marks)	PO1, PO2, PO4, PO6, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1
SV	Viva (20 marks)	PO1, PO2, PO4, PO6, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1
FC	Practical exercise activity score DIAS Score (minimum required score 20000)	PO1, PO2, PO4, PO6, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1
Legend: <ul style="list-style-type: none"> • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FC FORMATIVE CLINICAL 		

	Outcome Evaluation (200 marks)	PO CO Mapping	Outcome Analysis 2021 IN %
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SP	Practicals (150 marks) Long and short case demonstration, Haematology, Staining.	PO1, PO2, PO4, PO6, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1	70%
SV	Viva (50 marks) Stage Viva - Staining, Microscopy, Case discussion	PO1, PO2, PO4, PO6, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1	70%
FC	Practical exercise activity score DIAS Score (minimum required score 20000)	PO1, PO2, PO4, PO6, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1	70%

Legend:

- SP SUMMATIVE PRACTICAL,
- SV SUMMATIVE VIVA,
- FC FORMATIVE CLINICAL

**Course Details:
MDS064 - Grand viva**

Course Outcome		PO mapping
CO1	There should be a thorough and comprehensive knowledge of all the concepts of oral pathology and diagnosis with special emphasis on slide description and identification.	PO1, PO2, PO4, PO6, PSO1, PSO2, PSO3,

		PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14
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	Outcome Evaluation (100 marks)	PO CO Mapping
SV	Viva (100 marks)	PO1, PO2, PO4, PO6, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1
Legend: <ul style="list-style-type: none"> • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FC FORMATIVE CLINICAL 		

	Outcome Evaluation (100 marks)	PO CO Mapping	Outcome Analysis 2021 in %
SV	Viva (100 marks)	PO1, PO2, PO4, PO6, PSO1, PSO2, PSO3, PSO4, PSO6, PSO7, PSO9, PSO10, PSO11, PSO13, PSO14 CO1	70%
Legend: <ul style="list-style-type: none"> • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, • FC FORMATIVE CLINICAL 			

