

Saveetha Institute of Medical and Technical Science

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.

Saveetha Dental College

Saveetha Institute of Medical and Technical Sciences (SIMATS)

MDS PERIODONTICS

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 Outcome MDS PERIODONTICS	
PSO 1	Thorough understanding of the normal anatomy and functions of periodontium, competent to differentiate periodontal health from disease.
PSO 2	To have an understanding of etiopathogenesis of periodontal diseases for early diagnosis and prevention of periodontal disease.
PSO 3	Identify the various risk factors, systemic influences and prognostic factors associated with periodontal diseases for creating awareness and motivating the patient to maintain stable periodontal health.
PSO 4	Should be able to accurately diagnose the periodontal status of the patient to develop a comprehensive treatment plan for the patient's needs.
PSO 5	Gain adequate clinical skills in various anaesthesia techniques that are to be used for different surgical procedures in periodontics and implantology.
PSO 6	To perform all the periodontal surgical procedures with a sound knowledge on the principles of periodontal instrumentation.

PSO 7	Ability to perform various non surgical periodontal therapeutic approaches for management of different forms of periodontal disease.
PSO 8	Should understand the rationale for periodontal flap therapy and must acquire the clinical skills to perform all the different techniques for Periodontal pocket management.
PSO 9	To be able to identify the various mucogingival deformities and perform the desired techniques to achieve esthetically and functionally optimal results .
PSO 10	Should be able to analyse the indications and perform various laser assisted periodontal/peri implant surgical procedures.
PSO11	To learn the art of using microscopes and to perform all Microsurgical periodontal procedures.
PSO 12	Should have the ability to diagnose and perform various complex hard and soft tissue regenerative procedures.
PSO 13	Managing complex cases with an interdisciplinary approach for full mouth rehabilitation.
PSO 14	To have sufficient knowledge regarding treatment planning, surgical and prosthetic management of dental implants and peri implantitis management
PSO 15	To have concise knowledge on periodontal maintenance protocol and supportive periodontal therapy to aid in long term successful results.
PSO 16	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.

Course Details: MDS: 001 [Applied Basic Medical Sciences - ABMS]		
Course Outcome		PO, PSO mapping
CO1	Knowledge of applied Anatomy, Physiology, Biochemistry Physiology, Pathology, Microbiology in respective clinical specialties.	PO1, PO5, PSO1
CO2	Knowledge and applications of molecular biology and genetics in disease pathogenesis, diagnosis in clinical practice	PO1, PO5, PSO1
CO3	Knowledge of applied material sciences in developing treatment strategies	PO1, PO4, PO5, PSO1
CO4	Knowledge on infection protocol in clinical practice	PO1, PO4, PO5, PSO1
	Outcome Evaluation (100 marks) Total Score (Summative = 100 marks)	PO CO Mapping
ST	Theory exam-100 marks	PO1, PSO 1 CO 1, CO 2 , CO 3, CO 4

Outcome Analysis (100 marks)			
	Outcome Evaluation (100 marks)	PO CO Mapping	Outcome Analysis 2021 (percentage)
	Total Score (Summative= 100 marks)		

ST	Theory Exam	PO1, PSO 1 CO 1, CO 2 , CO 3, CO 4	80
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	PO1, PSO16
CO2	Should know the importance of ethics in research	PO3, PO6, PSO16
CO3	Should have the knowledge of various study designs namely Cohort, Case control, Cross sectional, Clinical trial and Diagnostic studies	PO3, PSO16
CO4	Should be able to define the hypothesis and frame the research question in PICO format	PO3, PSO16
CO5	Should know the various reporting guidelines	PO3, PSO16
CO6	Should be able to critically analyze the topic with emphasis on quality assessment	PO3, PSO16
CO7	Understanding of Descriptive and Inferential statistical tests and interpretation.	PO3,PSO16

CO8	Knowledge on types of data and to arrive at sample size determination for the research projects to be undertaken using G power analysis.	PO3,PSO1 6
CO9	Knowledge on parametric and non parametric statistical analysis and choosing of appropriate tests based on the outcome variables.	PO3,PSO1 6
CO10	Application of Descriptive and Inferential statistical analysis of data using statistical software SPSS	PO3, PSO16
Outcome Evaluation (100 marks)		PO CO Mapping
Total Score (Summative = 100 marks)		
ST	Theory exam-100 marks	PO1, PO3, PSO16,CO1,CO2, CO3,CO4,CO5,CO 6,CO7,CO8,CO9
FT	Assessment of activities and assignments (100 marks)	PO1, PO3, PSO16,CO1,CO2, CO3,CO4,CO5,CO 6,CO7,CO8,CO9

Outcome Analysis (100 marks)			
	Outcome Evaluation (100 marks)	PO CO Mapping	Outcome Analysis 2021 (percentage)
ST	Theory Exam	PO1, PO3, PSO16,CO1,CO2,CO3,C O4,CO5,CO6,CO7,CO8, CO9	80

FT	Formative Assessment	PO1, PO3, PSO16,CO1,CO2,CO3,C O4,CO5,CO6,CO7,CO8, CO9	80
Legend:			
<ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • FT FORMATIVE THEORY 			

Course Details:MDS 211 Preclinicals Periodontics Theory		
Course Outcome		PO MAPPING
CO1	Should acquire the knowledge about various periodontal and surgical instruments, rationale for its use, design characteristics and the principles of instrumentation.	PO1, PSO6,PSO7
CO2	Should acquire thorough knowledge about various suture materials, characteristic features, principle of suturing and suturing techniques.	PO1, PSO6
CO3	Should have knowledge about the occlusal analysis, T-Scan principles used evaluation of occlusal disharmony.	PO1, PSO7
CO4	Should have knowledge about the lasers, principles and various types of dental lasers.	PO1, PSO10
CO5	Should have an understanding about the magnifications system, principles of microsurgery, microsurgical instruments and ergonomics of minimally invasive surgery.	PO1, PSO11
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO6,PSO7,PS

		O10,PSO11,PS O16 CO1,CO2,CO3, CO4,CO5.
ST	CAT (15x2= 30 marks)	PO1, PSO6,PSO7,PS O10,PSO11,PS O16 CO1,CO2,CO3, CO4,CO5.
ST	Objectives (50 x 1= 50 marks)	PO1, PSO6,PSO7,PS O10,PSO11,PS O16 CO1,CO2,CO3, CO4,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 		

COURSE DETAILS : MDS 211 Preclinicals Periodontics Theory			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks)	PO	CO
	Total Score (100)	Mapping	Outcome analysis 2021 (percentage)

ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO6,PSO7 ,PSO10,PS O11,PSO16 CO1,CO2,C O3,CO4,CO 5.	75
ST	CAT (15x2= 30 marks)	PO1, PSO6,PSO7 ,PSO10,PS O11,PSO16 CO1,CO2,C O3,CO4,CO 5.	70
ST	Objectives (50 x 1= 50 marks)	PO1, PSO6,PSO7 ,PSO10,PS O11,PSO16 CO1,CO2,C O3,CO4,CO 5.	78
FT	Weighted percentile scores of periodic test converted for 100 marks		77
FT	Mean ARMS daily participation score converted for 100 marks		78
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 212: PRECLINICAL PERIODONTICS PRACTICAL		
Course Outcome		PO MAPPING
CO1	Should acquire clinical skills and dexterity in handling periodontal instruments based on surgical principles (Scaling, root planing, excision, incisions, debridement)	PO1, PSO6,PSO7,PSO9,PSO8
CO2	Competent enough to handle different suture materials and techniques using animal tissues and typodont models	PO1,PSO6
CO3	Should have the expertise on various laser operating parameters for different periodontal procedures using both soft and hard tissue lasers	PO1, PSO10
CO4	Competent enough to operate and interpret T-Scan, jaw tracking, Electromyography, occlusal splint fabrication and coronoplasty techniques in typodont models.	PO1, PSO4,PSO7
CO5	Master the skill of various splinting techniques using wire reinforced and fiber reinforced composite on preclinical models.	PO1, PSO7
CO6	Should execute the periodontal surgical and suturing techniques under different magnification system (Magnification loupes and surgical microscope) and efficient enough in handling microsurgical instruments based on the ergonomics of minimally invasive surgery	PO1, PSO11
CO7	Competent in identifying and handling the implant kit and various instruments used for pre implant tissue preparation, implant surgery.	PO1, PSO6,PSO7,PSO10,PSO14

	Outcome Evaluation (100 marks) Total Score	PO MAPPING	CO
SP	Practical (70 marks) (Any suturing technique in preclinical model, T- scan analysis, Splinting in pre-clinical model)	PO1, PSO6,PSO7,PSO9,PSO10,PSO11,PSO14	CO1,CO2,CO3,CO4,CO5,CO6,CO7
SV	VIVA (30 marks)	PO1, PSO6,PSO7,PSO9,PSO10,PSO11,PSO14	CO1, CO2,CO3,CO4,CO5,CO6,CO7
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 212: PRECLINICAL PERIODONTICS PRACTICAL			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping	CO Outcome analysis 2021

SP	Practical (70 marks) (Any suturing technique in preclinical model, T-scan analysis, Splinting in pre-clinical model)	PO1, PSO6,PSO7 ,PSO9,PSO 10,PSO11,P SO14 CO1,CO2,C O3,CO4,CO 5,CO6,CO7	78
SV	VIVA (30 marks)	PO1, PSO6,PSO7 ,PSO9,PSO 10,PSO11,P SO14 CO1, CO2,CO3,C O4,CO5,CO 6,CO7	75
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		70
FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO2, PO3, PSO16	70
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 213: ANATOMY, PHYSIOLOGY AND DEVELOPMENT OF THE PERIODONTIUM

Course Outcome		PO	CO
		MAPPING	
CO1	Should have knowledge on architecture and structures of gingiva, cementum, periodontal ligament and alveolar bone.	PO1, PSO1	PO5,
CO2	Should acquire knowledge on histological structures and physiology of periodontium.	PO1, PSO1	PO5,
CO3	Competent enough to acquire knowledge on epithelium and connective tissues in periodontium (Type of epithelium, ground substance, collagenous and non-collagenous proteins, cell-cell interaction)	PO1, PSO1	PO5,
Outcome Evaluation (100 marks)		PO	CO
Total Score (100)		Mapping	
ST	Concept Map (4 x 5 = 20 marks)	PO1, CO1, CO3	PSO1, CO2,
ST	CAT (15x2= 30 marks)	PO1, CO1, CO3	PSO1, CO2,
ST	Objectives (50 x 1= 50 marks)	PO1, CO1,CO2,CO3	PSO1,
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 213: ANATOMY, PHYSIOLOGY AND DEVELOPMENT OF THE PERIODONTIUM

OUTCOME ANALYSIS

	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO1, CO1, CO2, CO3	70
ST	CAT (15x2= 30 marks)	PO1, PSO1, CO1, CO2, CO3	75
ST	Objectives (50 x 1= 50 marks)	PO1, PSO1, CO1,CO2,C O3	70
FT	Weighted percentile scores of periodic test converted for 100 marks		74
FT	Mean ARMS daily participation score converted for 100 marks		77
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 217: PERIODONTAL MICROBIOLOGY

COURSE OUTCOME		PO MAPPING
CO1	Should have the basic theoretical knowledge about correlation between microorganisms in periodontal health and disease.	PO1, PSO2
CO2	Should have a clear understanding of the various periodontopathic microorganisms. (P.gingivalis, T. forsythia, T.denticola, F.nucleatum and P intermedium)	PO1, PSO2
CO3	Should have clear knowledge about the structure, pathophysiology, virulence factors of periodontopathic bacteria.	PO1, PSO2
CO4	Should have thorough knowledge about biofilm formation, its content and its role in periodontal disease.	PO1, PSO2
CO5	Should have knowledge to critical analyse various theories of plaque formation	PO1, PSO2
OUTCOME EVALUATION(100 MARKS) TOTAL SCORE(50 OBJECTIVES, 30 Critical Appraisal, 20 Concept Mapping = 100 MARKS)		PO CO MAPPING
ST	Concept Map (4* 5= 20 marks)	PO1, PSO2 CO1,CO2,CO3,CO4,CO5
ST	Critical appraisal (2*15 = 30 marks)	PO1, PSO2 CO1,CO2,CO3,CO4,CO5

ST	Objectives (50*1 = 50 marks)	PO1, PSO2 CO1,CO2,CO3,CO4,CO5
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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 217: PERIODONTAL MICROBIOLOGY			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO2 CO1,CO2,C O3,CO4,CO 5	77
ST	Critical appraisal (2*15 = 30 marks)	PO1, PSO2 CO1,CO2,C O3,CO4,CO 5	75
ST	Objectives (50 x 1= 50 marks)	PO1, PSO2 CO1,CO2,C O3,CO4,CO 5	78

FT	Weighted percentile scores of periodic test converted for 100 marks		75
FT	Mean ARMS daily participation score converted for 100 marks		78
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 240: PERIODONTAL IMMUNOLOGY AND GENETICS		
COURSE OUTCOME		PO mapping
CO1	Should know the basics of immunology and different immune response (acquired and innate immunity)	PO1, PSO2
CO2	Should have thorough knowledge about different defense cells and their receptors in immunity.	PO1, PSO2
CO3	Should have knowledge on antigens, antibody and antigen-antibody interaction.	PO1, PSO2
CO4	Acquire knowledge on host response to pathogens.	PO1, PSO2

CO5	Should know the basics of genetics (chromosome, gene, proteomics, genomics, RNA, DNA, genetic mutation and polymorphism) and its analysis	PO1, PSO3
CO6	Should have knowledge to critically analyse the role of genetic risk factor in periodontal disease pathogenesis.	PO1, PSO3
CO7	Should have a knowledge about the various simple mendelian disorder with periodontitis as its one of the manifestation	PO1, PSO2
CO8	Should have thorough knowledge about recent advancements in genetics and different genetic studies.	PO1, PSO3
OUTCOME EVALUATION(100 MARKS) TOTAL SCORE(50 OBJECTIVES, 30 Critical Appraisal, 20 Concept Mapping = 100 MARKS)		PO CO Mapping
ST	Concept Map (4* 5= 20 marks)	PO1, PSO2,PSO3 CO1,CO2,CO3,CO4,CO5, CO6, CO7,CO8
ST	Critical appraisal (2*15 = 30 marks)	PO1, PSO2,PSO3 CO1,CO2,CO3,CO4,CO5, CO6,CO7,CO8
ST	Objectives (50*1 = 50 marks)	PO1, PSO2,PSO3

		CO1,CO2,CO3,CO4,CO5, CO6,CO7,CO8
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 240: PERIODONTAL IMMUNOLOGY AND GENETICS			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO2,PSO3 CO1,CO2,C O3,CO4,CO 5,CO6, CO7,CO8	75
ST	Critical appraisal (2*15 = 30 marks)	PO1, PSO2,PSO3 CO1,CO2,C	80

		O3,CO4,CO5,CO6,CO7,CO8	
ST	Objectives (50 x 1= 50 marks)	PO1, PSO2,PSO3 CO1,CO2,CO3,CO4,CO5,CO6,CO7,CO8	85
FT	Weighted percentile scores of periodic test converted for 100 marks		80
FT	Mean ARMS daily participation score converted for 100 marks		75
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 241:ADVANCED DIAGNOSTICS AND RISK ASSESSMENT PRACTICALS		
COURSE OUTCOME		PO MAPPING
CO1	Should have the basic practical knowledge about different clinical diagnostic techniques (Digital probe, pressure sensitive probe, mobilometer, frequency analysis and its advancement)	PO1, PSO4

CO2	Should acquire the skill on using different radiograph diagnostic techniques (IOPA, digital radiographs, CBCT)	PO1, PSO4
CO3	Competent enough in samples collection for periodontal research and therapy. (Plaque, GCF, saliva and tissue)	PO1, PO4 PSO4
CO4	Master the skills on handling various culture media and interpreting microbial data	PO1, PSO4
CO5	Should acquire skills on DNA extraction techniques and handle the biochemical analysis (PCR and ELISA)	PO1, PSO4
CO6	Should know about different RISK assessment tools and their applications in the clinical scenario	PO1,PSO 4
OUTCOME EVALUATION (100 MARKS) TOTAL SCORE(70 Practical , 30 Viva = 100 MARKS)		PO CO Mapping
SP	Practical (70 marks) (Plaque sample collection,DNA extraction from saliva/blood, CBCT interpretation)	PO1, PSO4 CO1,CO2,CO3,CO4,CO5,CO 6
SV	Viva (30 marks)	PO2, PSO4 CO1,CO2,CO3,CO4,CO5,CO 6
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 241:ADVANCED DIAGNOSTICS AND RISK ASSESSMENT PRACTICALS

OUTCOME ANALYSIS

	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021
SP	Practical (70 marks) (Plaque sample collection,DNA extraction from saliva/blood, CBCT interpretation)	PO1, PSO4 CO1,CO2,C O3,CO4,CO 5,CO6	82
SV	VIVA (30 marks)	PO1, PO4, PSO4 CO1,CO2,C O3,CO4,CO 5,CO6	80
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks	PO1, PSO4 CO1,CO2,C O3,CO4,CO 5,CO6	85

FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PSO 16	80
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 641 DENTAL IMPLANTS AND PERI-IMPLANTITIS MANAGEMENT			
Course Outcome		PO	CO
		MAPPING	
CO1	Should have integrated knowledge on applied anatomy, bone biology of maxilla and mandible and implant biomaterials.	PO1, PSO 14	
CO2	Should have sound knowledge on implant types, implant geometry and rationale for selecting dental implants with scientific evidence.	PO1, PSO 14	
CO3	Should be competent enough in diagnosis and treatment planning for dental implant placement.	PO1, PSO 14	
CO4	Should have sound knowledge on the surgical principles and protocol for dental implant placement surgery.	PO1, PSO 14	
CO5	Should have thorough knowledge in the prosthetic treatment options in implantology and the prosthetic techniques used for achieving predictable implant function and aesthetics.	PO1, PSO 14	
CO6	Should have sound knowledge of various bone graft	PO1, PSO 14,	

	materials and techniques that are used in advanced grafting procedures for guided bone regeneration.	PO 15
CO7	Should understand the various surgical, prosthetic and biological complications in implantology and the techniques of management of implants failures and complications.	PO1, PSO 14
CO8	Should have sound knowledge in the digital surgical workflow and prosthetic workflow used in guided implant surgeries.	PO1, PSO 14
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO1, PSO 16, PSO 14, PSO 15. CO1, CO2, CO5, CO7,
ST	CAT (15x2= 30 marks)	PO1, PSO1, PSO 14, PSO 15. CO1, CO2, CO5
ST	Objectives (50 x 1= 50 marks)	PO1, PSO1, PSO 14, PSO 15, CO1, CO2, CO5, CO8
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 641 DENTAL IMPLANTS AND PERI-IMPLANTITIS MANAGEMENT

OUTCOME ANALYSIS

	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO1, PSO 16, PSO 14, PSO 15. CO1, CO2, CO5, CO7	83
ST	CAT (15x2= 30 marks)	PO1, PSO1, PSO 14, PSO 15. CO1, CO2, CO5	82
ST	Objectives (50 x 1= 50 marks)	PO1, PSO1, PSO 14, PSO 15, CO1, CO2, CO5, CO8	74
FT	Weighted percentile scores of periodic test converted for 100 marks		75
FT	Mean ARMS daily participation score converted for 100 marks		75
Legend:			
<ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL, 			

<ul style="list-style-type: none"> • SV SUMMATIVE VIVA, • FT FORMATIVE THEORY, • FP FORMATIVE PRACTICAL, • FC FORMATIVE CLINICAL • FRC FORMATIVE RESEARCH - CO-CURRICULAR 		
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COURSE NAME: MDS 642- IMPLANTOLOGY PRACTICALS		
COURSE OUTCOME		PO MAPPING
CO1	To acquire the skill is assessing the anatomical landmarks and it's variations in maxilla and mandible for surgical implant placement.	PO1, PSO 14
CO2	Should have sound knowledge on the various implant systems available, surgical components and prosthetic components used in implantology.	PO1, PSO 14
CO3	Should be adequate knowledge in diagnosis using CBCT and should be able to plan implant placement using various digital softwares available.	PO1, PSO 14
CO4	Should be able to independently perform dental implant surgery on patients followed by prosthetic restoration of the implant.	PO1, PSO 14
CO5	Should the clinical skills in performing complex soft tissue and hard tissue regenerative cases.	PO1, PSO 14
CO6	Should be competent in managing various surgical,prosthetic and biological complications in dental implantology.	PO1, PSO 14, PSO 15
CO 7	Acquire the clinical skills for digital planning and placement of implant using the guided implant surgery protocol.	PO1, PSO 14
Outcome Evaluation (100 marks) Total Score (100)		PO CO MAPPING

SP	Implant case presentation (30 marks) (Case history, CBCT analysis, Diagnosis and treatment planning)	PO1, PSO 1, PSO 15, PSO 14 CO1, CO2, CO5, CO7
SP	Implant placement (50 marks) (Incision , Flap elevation, Implant placement and suturing)	PO1, PSO1, PSO 14, PSO 15 CO1, CO2, CO5
SV	VIVA (20 marks)	PO1, PO2, PSO1, PSO 14, PSO 15 CO1, CO2, CO5, CO 6, CO 7
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 NAME: MDS 642- IMPLANTOLOGY PRACTICALS			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks)	PO	CO
	Total Score (100)	Mapping	Outcome analysis 2021

SP	Implant case presentation (30 marks) (Case history, CBCT analysis, Diagnosis and treatment planning)	PO1, PSO 1, PSO 14, PSO 15, PSO 14 CO1, CO2, CO5, CO7	85
SP	Implant placement (50 marks) (Incision , Flap elevation, Implant placement and suturing)	PO1, PSO1, PSO 14, PSO 15 CO1, CO2, CO5, CO 6, CO 7	80
SV	VIVA (20 marks)	PO1, PO2, PSO1, PSO 14, PSO 15 CO1, CO2, CO5, CO 6, CO 7	80
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		85
FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16	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 221 : Diseases of Periodontium		
Course Outcome		PO MAPPING
CO1	Knowledge about periodontal diseases, clinical, radiographic and histologic presentation and the various classification systems of periodontal disease.	PO1, PSO1,PSO2,
CO2	Understand the pathogenesis of different periodontal diseases and conditions	PO1, PSO2
CO3	Competent to give various differential diagnosis for a given condition	PO1,PSO4
CO4	Should know the influence of systemic diseases on periodontium	PO1, PSO3
CO5	Ability to differentiate between healthy and diseased periodontium	PO1, PSO1,PSO3
Outcome Evaluation (100 marks)		PO CO Mapping
ST	Objective Questions (1 x 50 = 50 Marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO2, CO3, CO4

ST	Concept Map (4 x 5 = 20 Marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO4, CO5
ST	Critical Appraisal of Topic (CAT) (15 x 2 = 30 Marks)	PO1, PSO16 CO1

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 221 : Diseases of Periodontium			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO2, CO3, CO4	80
ST	Critical appraisal (2*15 = 30 marks)	PO1,	82

		PSO16 CO1	
ST	Objectives (50 x 1= 50 marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO2, CO3, CO4	77
FT	Weighted percentile scores of periodic test converted for 100 marks		
FT	Mean ARMS daily participation score converted for 100 marks		80
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 222 : Diseases of Periodontium Practicals		
Course Outcome		PO mapping
CO1	Efficiently use all diagnosing instruments and tools to arrive at definitive diagnosis	PO1, PSO6
CO2	Should be able to advise radiographic and histologic investigations whenever required	PO1, PSO4
CO3	Interpret radiographic and histologic findings and correlate with the clinical presentation of the disease	PO1, PSO2,

		PSO4
CO4	Competent to procure biopsy samples for histological examination when indicated	PO1, PSO2, PSO6
CO5	Motivate and educate patients about periodontal disease, its treatment and consequences	PO1, PSO3, PSO15
CO6	Predict the prognosis of the periodontal condition/disease	PO1,PSO3
	Outcome Evaluation (100 marks)	PO CO Mapping
SP	Practicals (70 Marks) [Case history taking- 30 marks,Chair side viva- 20 marks,Short case presentation 20 marks]	PO1, PSO2, PSO4, PSO6, PSO15 CO1, CO2, CO4, CO5
SV	Viva (30 Marks)	PO1, PO2, PSO1, PSO2, PSO3 CO3, 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 	

COURSE NAME: MDS 222 : Diseases of Periodontium Practicals

OUTCOME ANALYSIS

	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping	CO Outcome analysis 2021 (percentage)
SP	Practicals (70 Marks) [Case history taking- 30 marks,Chair side viva- 20 marks,Short case presentation 20 marks]	PO1, PSO2, PSO4, PSO6, PSO15 CO1, CO2, CO4, CO5	80
SV	VIVA (30 marks)	PO1, PO2, PSO1, PSO2, PSO3 CO3, CO6	77
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		73
FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16	80
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: MDS226 NONSURGICAL THERAPY- PRACTICAL		
Course Outcome		PO mapping
CO1	Should acquire clinical competencies to correlate clinical and radiographic findings to formulate a proper treatment plan	PO1, PSO2, PSO3, PSO4, PSO7
CO2	Should acquire clinical dexterity in handling different periodontal armamentarium for nonsurgical therapy and master the skill of scaling and root planing with correct instrumentation techniques	PO1, PSO6, PSO7
CO3	Should acquire knowledge about laser operating parameters, laser safety protocols and attain skills of using both soft and hard tissue Laser assisted periodontal and peri-implant therapy and Photobiomodulation	PO1, PSO10
CO4	Should acquire knowledge about various local and systemic drugs, should be able to use various local drug delivery systems and also to provide Host modulation therapy	PO1, PSO3, PSO7
CO5	Ability to identify the occlusal problem and its effective management (coronoplasty techniques/ Occlusal splints)	PO1, PSO4, PSO7
CO6	Knowledge about different brushing techniques, use of interdental aids, chemical plaque control measures and should be able to communicate with the patients effectively and educate them about oral hygiene maintenance	PO1, PSO15
Outcome Evaluation (100 marks)		PO CO Mapping

SP	Practicals (70 marks) (Case history, Diagnosis and treatment plan, Scaling and root planing, curettage, LANAP/ Local drug delivery, oral hygiene instructions)	PO1, PSO2, PSO4, PSO6, PSO7, PSO15 CO1, CO2, CO3, CO4
SV	Viva (30 marks)	PO1, PO2, PSO2, PSO7 CO3, CO4, CO5
Legend:		
<ul style="list-style-type: none"> • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, 		

COURSE DETAILS: MDS226 NONSURGICAL THERAPY- PRACTICAL			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping CO	Outcome analysis 2021 (percentage)
SP	Practical (70 marks) (Case history, Diagnosis and treatment plan, Scaling and root planing, curettage, LANAP/ Local drug delivery, oral hygiene instructions)	PO1, PSO2, PSO4, PSO6, PSO7, PSO15 CO1, CO2, CO3, CO4	70

SV	VIVA (30 marks)	PO1, PO2, PSO2, PSO7 CO3, CO4, CO5	77
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		78
FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16	77
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 242 : Management of Periodontal Pocket Therapy		
Course Outcome		PO mapping
CO1	Theoretical knowledge on periodontal pocket pathogenesis, clinical and radiographic presentation and management	PO1, PSO2, PSO3
CO2	Diagnose and formulate treatment plan for early and advanced periodontal conditions	PO1, PSO4
CO3	Knowledge about various surgical techniques, flap designs, anesthetic technique, suture materials and suturing technique for periodontal pocket therapy	PO1, PSO8
CO4	Should be aware of the basic and advanced instruments for pocket management	PO1, PSO6, PSO10

CO5	Knowledge about the post-operative complications of periodontal pocket therapy and its management	PO1, PSO8
	Outcome Evaluation (100 marks)	PO CO Mapping
ST	Objective Questions (1 x 50 = 50 Marks)	PO1,PSO2, PSO3, PSO10 CO1, CO2, CO3
ST	Concept Map (4 x 5 = 20 Marks)	PO1, PSO6, PSO8 CO4, CO5
ST	Critical Appraisal of Topic (CAT) (15 x 2 = 30 Marks)	PO1, PSO16 C03
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, 		

COURSE DETAILS : MDS 242 : Management of Periodontal Pocket Therapy			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021 (percentage)
ST	Critical appraisal (2*15 = 30 marks)	PO1, PSO6, PSO8 CO4, CO5	80

ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO6,PSO8 CO4,CO5	85
ST	Objectives (50 x 1= 50 marks)	PO1, PSO2, PSO3, PSO10 CO1, CO2, CO3	80
FT	Weighted percentile scores of periodic test converted for 100 marks	PO1, PSO2, PSO3, PSO10 CO1, CO2, CO3	75
FT	Mean ARMS daily participation score converted for 100 marks	PO1, PSO2, PSO3, PSO10 CO1, CO2, CO3	80
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 243 : Surgical Management of Pocket Practicals		
Course Outcome		PO mapping
CO1	Correlate radiographic and clinical findings to decide appropriate	PO1,

	treatment plan	PSO4
CO2	Should acquire skill on using advanced aids such as lasers for pocket management	PO1, PSO10
CO3	Efficiently use all surgical instruments	PO1, PSO 6
CO4	Select and carry out appropriate surgical treatment/technique, flap design for the present disease condition	PO1, PSO 8
CO5	Manage intra and post-operative complications of pocket therapy	PO1, PSO8
CO6	Predict the prognosis of the periodontal surgical treatment	PO1, PO4, PSO8
	Outcome Evaluation (100 marks)	PO CO Mapping
SP	Practicals (70 Marks) (Case history, Diagnosis and treatment plan, periodontal flap surgery, Instructions to patients for maintenance)	PO1, PSO4, PSO6, PSO8, PSO10 CO2, CO3, CO4, CO5, CO6
SV	Viva (30 Marks)	PO1, PO2, PSO3 CO1, CO6
Legend: <ul style="list-style-type: none"> • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA, 		

COURSE DETAILS: MDS 243 : Surgical Management of Pocket Practicals

OUTCOME ANALYSIS

	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping	CO	Outcome analysis 2021 (percentage)
SP	Practical (70 marks) (Case history, Diagnosis and treatment plan, periodontal flap surgery, Instructions to patients for maintenance)	PO1, PSO4, PSO6, PSO8, PSO10	CO2, CO3, CO4, CO5, CO6	79
SV	VIVA (30 marks)	PO1, PSO3	CO1, CO6	80
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks			82
FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16		78
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: MDS233 REGENERATIVE AND RESECTIVE PERIODONTAL SURGERY- THEORY

Course Outcome		PO mapping
CO1	Should have theoretical knowledge about the biological principles behind regeneration, tissue engineering principles, mechanism of periodontal regeneration and various tools for assessment of regeneration (clinical, radiographic, histologic), soft and hard tissue regeneration mechanism	PO1, PSO2, PSO12
CO2	Should have a thorough knowledge on various bone grafts, available bone graft materials and its advancements, principles of bone grafting, procurement of autologous grafts and handling techniques	PO1, PSO4, PSO5, PSO12,
CO3	Should have knowledge about Guided Tissue Regeneration (GTR), Guided Bone Regeneration (GBR), signaling molecules (growth factors, BMPs), understanding the biological principles of using them for periodontal regeneration.	PO1, PSO8, PSO12,
CO4	Knowledge about 3D bioprinting and its use in periodontal and peri-implant regenerative procedures	PO1, PO4, PSO12, PSO14
CO5	Have a clear idea on the various treatment options for resective and regeneration for endodontic or prosthetic rehabilitation	PO1, PSO12, PSO13, PSO14

CO6	Should have a thorough knowledge on armamentarium, principles of, hand / rotary techniques and effective management of pathological bony defects	PO1, PSO12, PSO14,
CO7	Should be able to critically analyse various literatures for efficient management of periodontal defects and Knowledge on evidence based practices related to regenerative and resective procedures	PO1, PSO16
Outcome Evaluation (100 marks)		PO CO Mapping
ST	Objectives (50 x 1 = 50 marks)	PO1, PSO12, PSO16 CO1, CO2, co3, co4,
ST	CAT (2 x 15 = 30 marks)	PO1, PSO16 CO4, CO6
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO12 CO1, CO5
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, 		

COURSE DETAILS : MDS233 REGENERATIVE AND RESECTIVE PERIODONTAL SURGERY- THEORY

OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021 (percentage)
ST	Critical appraisal (2*15 = 30 marks)	PO1, PSO16 CO4, CO6	77
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO12 CO1, CO5	78
ST	Objectives (50 x 1= 50 marks)	PO1, PSO12, PSO16 CO1, CO2, CO 3, CO 4	79
FT	Weighted percentile scores of periodic test converted for 100 marks	PO1, PSO16 CO4, CO6	75
FT	Mean ARMS daily participation score converted for 100 marks	PO1, PSO12 CO1, CO5	76
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: MDS234 REGENERATIVE AND RESECTIVE PERIODONTAL SURGERY- PRACTICAL

Course Outcome		PO mapping
CO1	Should acquire clinical competencies to correlate clinical and radiographic findings to formulate a proper treatment plan for different bone destructive patterns	PO1, PSO1, PSO2, PSO3, PSO4
CO2	Thorough knowledge on the armamentarium and ability to choose correct regenerative material and expertise in regenerative and resective osseous surgical techniques	PO1, PSO5, PSO12
CO3	Clinical dexterity in utilization of surgical materials (Bone grafts, GTR, Signaling molecules)	PO1, PSO6, PSO8
CO4	Should be competent in evidence based practices related to regenerative and resective surgeries for periodontal intrabony defects and also for endodontic and prosthetic rehabilitation	PO1, PSO12, PSO13, PSO14
CO5	Should be able to assess treatment outcome using various tools for assessment of regeneration (clinical, radiographic, histologic)	PO1, PSO12

CO6	Should be able to communicate with patients effectively and educate them about treatment and maintenance	PO1, PSO15
Outcome Evaluation (100 marks)		PO CO Mapping
SP	Practicals (70 marks) (Case history, Diagnosis and treatment plan, Regenerative / Resective periodontal surgery, Instructions to patients for maintenance)	PO1, PSO4, PSO6, PSO12, PSO15 CO1, CO2, CO3, CO4, CO6
SV	Viva (30 marks)	PO1, PO2, PSO4, PSO6, PSO12, PSO15 CO2, CO4, CO5
Legend: <ul style="list-style-type: none"> • SP SUMMATIVE PRACTICAL, • SV SUMMATIVE VIVA 		

COURSE DETAILS: MDS234 REGENERATIVE AND RESECTIVE PERIODONTAL SURGERY- PRACTICAL

OUTCOME ANALYSIS

	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping CO	Outcome analysis 2021 (percentage)
SP	Practical (70 marks) (Case history, Diagnosis and treatment plan, Regenerative / Resective periodontal surgery, Instructions to patients for maintenance)	PO1, PSO4, PSO6, PSO12, PSO15 CO1, CO2, CO3, CO4, CO6	77
SV	VIVA (30 marks)	PO1, PO2, PSO4, PSO6, PSO12, PSO15 CO2, CO4, CO5	80
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		80
FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16	82
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: MDS244 Lasers And Minimally Invasive Surgery Theory		
Course Outcome		PO Mapping
CO 1	Should have integrated knowledge on laser physics, fundamental properties, types and applications of lasers.	PO1, PSO10
CO 2	Have sound knowledge about different types of lasers and working parameters of all types of dental lasers such as Nd YAG, CO2, Erbium..	PO1, PSO10
CO 3	Should have sound knowledge about laser safety protocol.	PO1, PSO10
CO 4	Should have sound knowledge and treatment protocols of low level laser therapy , photodynamic therapy.	PO1, PSO10
CO 5	Should have theoretical knowledge in principles, indications and application of Periodontal microsurgery	PO1, PSO11
CO 6	Should have sound knowledge on principles and applications of magnification systems like dental loupes and operating microscopes	PO1, PSO11
CO 7	Should be competent in evidence based practices related to periodontal procedures	PO1, PSO19
	Outcome Evaluation (100 marks)	PO CO
	Total Score	Mapping
ST	CAT (15 x 2 = 30 marks)	PO1, PSO10, PSO11, CO1, CO2, CO3, CO4, CO5, CO6

		CO 7
ST	EBD Concept Map (4 x 5 = 20 marks)	PO1, PSO10, PSO11, CO1, CO2, CO3, CO4, CO5, CO6, CO7
ST	Objectives (50 x 1 = 50 marks)	PO1, PSO10, PSO11, CO1, CO2, CO3, CO4, 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 		

COURSE DETAILS : MDS244 Lasers And Minimally Invasive Surgery Theory			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021 (percentatge)
ST	Critical appraisal (2*15 = 30 marks)	PO1, PSO10, PSO11, CO1, CO2, CO3, CO4, CO5, CO6 CO 7	80

ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO10, PSO11, CO1, CO2, CO3, CO4, CO5, CO6, CO7	82
ST	Objectives (50 x 1= 50 marks)	PO1, PSO10, PSO11, CO1, CO2, CO3, CO4, CO5, CO6	85
FT	Weighted percentile scores of periodic test converted for 100 marks		88
FT	Mean ARMS daily participation score converted for 100 marks		88
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: MDS245 Lasers And Minimally Invasive Surgery Practicals		
Course Outcome		PO Mapping
CO1	Ability to diagnose and formulate treatment plans for managing periodontal disease with lasers and managing mucogingival surgeries with microsurgery	PO1, PSO10, PSO11
CO2	Clinical skills in handling different lasers, different magnification systems and microsurgical instruments	PO1, PSO10

CO3	Should have clinical skills to perform various laser assisted oral surgical procedures such as gingivectomy, osseous crown lengthening, non surgical therapy, surgical management of periodontal pathology, peri-implant applications and various periodontal esthetic procedures and wound healing using both soft tissue and hard tissue lasers.	PO1, PSO10
CO4	Clinical skills and expertise in low level laser therapy and photodynamic therapy.	PO1, PSO11
CO5	Clinical skills and dexterity in handling and selection of various microsurgical armamentarium	PO1, PSO11
CO6	Ability to increase surgical accuracy, accomplishing minimal tissue trauma and attaining passive wound closure with microsurgery practice of ergonomic postures, manual dexterity and proficient hand skills to perform periodontal microsurgery	PO1, PSO11
	Outcome Evaluation (100 marks)	PO CO Mapping
	Total Score	
SP	Case evaluation and treatment planning (20 x 1 = 20 marks)	PO1, PSO10, PSO11, CO1
SP	Surgery (50 x 1 = 50 marks) (Laser application in procedures, microsurgical skills in flap elevation and suturing)	PO1, CO2, CO3, CO4, CO5, CO6
SV	Viva (30 marks)	PO1, PO2, PSO10, PSO11, CO1, CO2, CO3, CO4, 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

COURSE DETAILS: MDS245 Lasers And Minimally Invasive Surgery Practicals			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping CO	Outcome analysis 2021 (percentage)
SP	Case evaluation and treatment planning (20 x 1 = 20 marks)	PO1, PSO10, PSO11, CO1	88
SP	Surgery (50 x 1 = 50 marks) (Laser application in procedures, microsurgical skills in flap elevation and suturing)	PO1, CO2, CO3, CO4, CO5, CO6	85
SV	VIVA (30 marks)	PO1, PO2, PSO10, PSO11, CO1, CO2, CO3, CO4, CO5, CO6	84
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		85

FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16	88
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 246 : Periodontal Plastic Surgery			
Course Outcome			PO mapping
CO1	Obtaining adequate theoretical knowledge about normal mucogingival anatomy and to be able to diagnose various mucogingival defects, esthetic deficiencies of periodontal/ peri implant defects and assess their severity		PO1, PSO1
CO2	Able to diagnose and formulate an appropriate treatment plan for management of mucogingival defects, esthetic deficiencies of periodontal/ peri-implant defects.		PO1, PSO2
CO3	adequate knowledge about principles and indications for Pre prosthetic surgeries to correct inadequate alveolar ridge and crown height		PO1, PSO9
CO4	Knowledge about various techniques of periodontal plastic surgery and suturing techniques		PO1, PSO9

CO5	To have adequate knowledge about recent commercially available graft materials for hard and soft tissue management	PO1, PSO9, PSO 14
CO6	Should be competent in executing evidence based practices related to periodontal plastic surgery	PO1, PSO14
Outcome Evaluation (100 marks)		PO CO Mapping
Total Score		
ST	Objectives (50 x 1 = 50 marks)	PO1, PSO9, PSO1, PSO2 CO 1, CO 2, CO 3, CO 4, CO 5, CO 6
ST	Essays (15 x 2 = 30 marks)	PO1, PSO9 CO 6, CO 2, CO 1
ST	Short notes (5 x 4 = 20 marks)	PO1, PSO9 CO 1, CO 3, CO 4, CO 6
Legend: <ul style="list-style-type: none"> ● ST SUMMATIVE THEORY, ● SP SUMMATIVE PRACTICAL, ● SV SUMMATIVE VIVA, 		

COURSE DETAILS : MDS 246 : Periodontal Plastic Surgery

OUTCOME ANALYSIS

	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021 (percentage)
ST	Objectives (50 x 1 = 50 marks)	PO1, PSO9, PSO1, PSO2 CO 1, CO 2, CO 3, CO 4, CO 5, CO 6	78
ST	Essays (15 x 2 = 30 marks)	PO1, PSO9 CO 6, CO 2, CO 1	80
ST	Short notes (5 x 4 = 20 marks)	PO1, PSO9 CO 1, CO 3, CO 4, CO 6	82
FT	Weighted percentile scores of periodic test converted for 100 marks		80

FT	Mean ARMS daily participation score converted for 100 marks		80
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 247-Interdisciplinary Periodontics & Supportive periodontal therapy		
Course Outcome		PO MAPPING
CO1	Adequate knowledge about interrelationships between pulpal and periodontal diseases, the etiology and classification of pulpal and apical diseases and the biologic effects of pulpal infection on periodontal tissue and periodontal infection on dental pulp.	PO1, PO4, PSO1,PSO2,
CO2	Should be able to diagnose cases of endo-perio and plan treatment as a case based scenario. Should have knowledge on procedures including hemisection, radisection	PO1, PO4, PSO4,PSO13
CO3	Should have knowledge about the various biologic, esthetic and occlusal considerations of periodontium for restorative therapy	PO1, PO4, PSO3
CO4	Should know the adjunctive role of orthodontic therapy for the management of osseous defects,gingival discrepancies. Should have the skills to analyse the cases of pre orthodontic osseous surgery and perform it.	PO1, PO4, PSO4,PSO13
CO5	Thorough knowledge about the importance of supportive periodontal therapy. Should be competent to provide supportive periodontal care and classify the patients post treatment and perform risk assessment .	PO1, PSO15
Outcome Evaluation (100 marks)		PO CO
Total Score (100)		Mapping

ST	Concept Map (4 x 5 = 20 marks)	PO1, PO4, PSO1,PSO2, PSO3,PSO 15 CO1,CO2, CO3,CO4, CO 5,
ST	CAT (15x2= 30 marks)	PO1, PO4, PSO 15, PSO 13, PSO 3 CO2,CO3,CO4 ,CO5
ST	Objectives (50 x 1= 50 marks)	PO1, PO4, PSO1,PSO2, PSO3, PSO4, PSO 13, PSO15 CO1,CO2,CO3 ,CO4,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 		

COURSE DETAILS: MDS 247-Interdisciplinary Periodontics & Supportive periodontal therapy			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks)	PO	CO
	Total Score (100)	Mapping	Outcome analysis 2021 (percentage)

ST	Concept Map (4 x 5 = 20 marks)	PO1, PO4, PSO1,PSO2, PSO3,PSO 15 CO1,CO2, CO3,CO4, CO 5,	88
ST	CAT (15x2= 30 marks)	PO1, PO4, PSO 15, PSO 13, PSO 3 CO2,CO3,C O4,CO5	82
ST	Objectives (50 x 1= 50 marks)	PO1, PO4, PSO1,PSO2, PSO3, PSO4, PSO 13, PSO15 CO1,CO2,C O3,CO4,CO 5,	88
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		82
FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16	86
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 248 : Periodontal Plastic Surgery Practicals		
Course Outcome		PO mapping
CO1	Obtaining adequate theoretical knowledge about normal mucogingival anatomy and to be able to diagnose various mucogingival defects, esthetic deficiencies of periodontal/ peri implant defects and assess their severity.	PO1, PSO9
CO2	Should be efficient in decision making with regards to appropriate techniques for management of mucogingival defects, esthetic defect of periodontium/ Peri implant defects .	PO1, PSO9
CO3	Developing proficiency in performing various periodontal plastic surgeries including hard and soft tissue ridge defects and suturing techniques	PO1, PSO9
CO4	Obtaining skills to efficiently manage intra and post-operative complications of periodontal plastic surgeries.	PO1, PSO9
	Outcome Evaluation (100 marks) Total Score	PO CO Mapping
SP	Case evaluation and treatment planning (20 x 1 = 20 marks)	PO1, PSO1, PSO2, PSO9 CO 1, CO 2

SP	Surgery (50 x 1 = 50 marks)	PO1, PSO1, PSO2, PSO9 CO 3, CO 4,
SP	Viva (30 marks)	PO1, PO2, PSO1, PSO2, PSO9 CO 1, CO 2, CO 3, CO 4

COURSE DETAILS: MDS 248 : Periodontal Plastic Surgery Practicals			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping CO	Outcome analysis 2021 (percentage)
SP	Case evaluation and treatment planning (20 x 1 = 20 marks)	PO1, PSO1, PSO2, PSO9 CO 1, CO 2	70
SP	Surgery (50 x 1 = 50 marks)	PO1, PSO1, PSO2, PSO9	72

		CO 3, CO 4,	
SV	VIVA (30 marks)	PO1, PSO1, PSO2, PSO9 CO 1, CO 2, CO 3, CO 4	75
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		75
FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16	77
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:MDS022 : Periodontics – PAPER I-NORMAL PERIODONTAL STRUCTURE, ETIOLOGY AND PATHOGENESIS OF PERIODONTAL DISEASES,EPIDEMIOLOGY AS RELATED TO PERIODONTICS		
Course Outcome		PO mapping
CO1	Should have theoretical knowledge on the normal anatomy, physiology and histopathology of basic periodontal tissues in health	PO1, PSO1

CO2	Should be able to write about the recent classification of periodontal and peri-implant diseases	PO1, PSO4
CO3	Ability to write about diagnosis of periodontal and peri-implant diseases, advanced diagnostic aids, associated risk factor and prognostic factors	PO1, PSO3, PSO4
CO4	Should have knowledge regarding the periodontic-systemic interlink	PO1, PO4, PSO2, PSO3
CO5	Ability to write about the microorganisms, microbial virulence factors, microbial dysbiosis and interactions associated with periodontal and per-implant health and disease,	PO1, PSO2
CO6	Have knowledge to write about host-microbial interactions associated with periodontal diseases	PO1, PSO2, PSO3
CO7	Have theoretical knowledge regarding the various genetic aspects associated with different forms of periodontal and peri-implant diseases	PO1, PSO2, PSO3
Outcome Evaluation (500 marks) Total Score (200 Summative, 300 formative = 500 marks)		PO CO Mapping

ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO4, CO5, CO6, CO7
ST	EBD Concept Map (1 x 5 = 5 marks)	PO1, PSO2, PSO3 CO4, CO5, CO6
ST	Objectives (50 x 1 = 50 marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO2, CO3, CO4, CO5, CO6, CO7

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: MDS022 : Periodontics – PAPER I-NORMAL PERIODONTAL STRUCTURE, ETIOLOGY AND PATHOGENESIS OF PERIODONTAL DISEASES, EPIDEMIOLOGY AS RELATED TO PERIODONTICS

OUTCOME ANALYSIS

	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping	CO Outcome analysis 2021 (percentage)
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO4, CO5, CO6, CO7	80
ST	EBD Concept Map (1 x 5 = 5 marks)	PO1, PSO2, PSO3 CO4, CO5, CO6	82
ST	Objectives (50 x 1= 50 marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO2, CO3, CO4, CO5, CO6, CO7	82
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		82
FRC	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16	88

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 		
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Course Details: MDS032: Periodontics – PAPER II- PERIODONTAL DIAGNOSIS, THERAPY AND ORAL IMPLANTOLOGY		
Course Outcome		PO mapping
CO1	Knowledge about the rationale for periodontal treatment	PO1, PSO2, PSO8
CO2	Ability to write about comprehensive treatment plans based on evidence based approaches	PO1, PSO4
CO3	Knowledge on the various non-surgical treatment approaches	PO1, PSO6, PSO7
CO4	Ability to write about different surgical pocket therapy and their outcomes, advanced hard and soft tissue procedures, perio-plastic surgeries	PO1, PSO8, PSO9, PSO12
CO5	Knowledge about soft and hard tissue lasers used in periodontics and laser assisted periodontal surgical procedures	PO1, PSO10
CO6	Adequate knowledge regarding microsurgery and minimally invasive periodontal surgical approaches	PO1, PSO11

CO7	Interdisciplinary management of complex periodontal and peri-implant cases	PO1, PO4, PSO13
CO8	Supportive periodontal and peri-implant therapy	PO1, PSO14
CO9	Ability to apply evidence based practices in periodontal therapy	PO1, PSO16
	Outcome Evaluation (500 marks) Total Score (200 Summative, 300 formative = 500 marks)	PO CO Mapping
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO2,PSO4,PSO6,PSO7,PSO8,PSO9,PSO10,PSO11,PSO12,PSO13,PSO14,PSO16 CO1,CO2,CO3,CO4,CO5,CO6,CO7,CO8,CO9
ST	EBD Concept Map (2 x 15 = 30 marks)	PO1, PSO6,PSO7,PSO8,PSO9,PSO12,PSO10,PSO11,PSO16 CO3, CO4, CO5, CO6,CO9
ST	Objectives (50x1 = 50 marks)	PO1, PSO2,PSO8,PSO6,PSO7,PSO8,PSO9,PSO10,PSO11,PSO12,PSO14 CO1, CO3, CO4, CO5,CO6, CO8

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: MDS032: Periodontics – PAPER II- PERIODONTAL DIAGNOSIS, THERAPY AND ORAL IMPLANTOLOGY
OUTCOME ANALYSIS

	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021 (percentage)
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO2,PSO4, PSO6,PSO7, PSO8,PSO9, PSO10,PSO 11,PSO12,P SO13,PSO1 4,PSO16 CO1,CO2,C O3,CO4,CO 5,CO6,CO7, CO8,CO9	88

ST	EBD Concept Map (1 x 5 = 5 marks)	PO1, PSO6,PSO7, PSO8,PSO9, PSO12,PSO 10,PSO11,P SO16 CO3, CO4, CO5, CO6,CO9	82
ST	Objectives (50 x 1= 50 marks)	PO1, PSO2,PSO8, PSO6,PSO7, PSO8,PSO9, PSO10,PSO 11,PSO12,P SO14 CO1, CO3, CO4, CO5,CO6, CO8	84
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		88
FRC	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16	80
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: MDS042: Periodontics – PAPER III- ESSAY (DESCRIPTIVE AND ANALYSING TYPE QUESTIONS)

Course Outcome		PO mapping
CO1	Should be able to perform evidence based analysis in recent advances in etiopathogenesis, Host-Microbe interactions, Risk factors.	PO1, PSO2, PSO3
CO2	Critical analyses of recent advances in therapeutics, treatment plan, periodontal surgical and implant procedures.	PO1, PSO9, PSO10, PSO11, PSO12, PSO14, PSO16
CO3	Critically analyse and write about the effectiveness of recent advances in treatment protocols for periodontal and peri-implant diseases based on evidence based practices	PO1, PSO9, PSO10, PSO11, PSO12, PSO13, PSO14, PSO15, PSO16
Outcome Evaluation (500 marks)		PO CO Mapping
Total Score (200 Summative, 300 formative = 500 marks)		
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO2, PSO3, PSO9, PSO10, PSO11, PSO12, PSO14, PSO16 CO1, CO2

ST	CAT (2 x 15 = 30 marks)	PO1, PSO2, PSO3, PSO9,PSO10,PSO11,PSO12,PS O13,PSO14,PSO15,PSO16 CO1,CO2,CO3
ST	Objectives (50x1 = 50 marks)	PO1, PSO2, PSO3, PSO9, PSO10, PSO11,PSO12,PSO14,PSO16 CO1,CO2

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: MDS042: Periodontics – PAPER III- ESSAY (DESCRIPTIVE AND ANALYSING TYPE QUESTIONS)

OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021 (percentage)
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO2,PSO3, PSO9,PSO1 0,PSO11, PSO12, PSO14, PSO16 CO1,CO2	77
ST	CAT (2 x 15 = 30 marks)	PO1,PSO2, PSO3, PSO9,PSO1 0,PSO11,PS O12,PSO13, PSO14,PSO 15,PSO16 CO1,CO2,C O3	78
ST	Objectives (50 x 1= 50 marks)	PO1,PSO2, PSO3, PSO9, PSO10, PSO11,PSO 12,PSO14,P SO16 CO1,CO2	79
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		70
FRC	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3,PSO16	77
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 		
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Course Details:MDS : Periodontics – UNIVERSITY PAPER 1- NORMAL PERIODONTAL STRUCTURE, ETIOLOGY AND PATHOGENESIS OF PERIODONTAL DISEASES,EPIDEMIOLOGY AS RELATED TO PERIODONTICS		
Course Outcome		PO mapping
CO1	Should have theoretical knowledge on the normal anatomy, physiology and histopathology of basic periodontal tissues in health	PO1, PSO1
CO2	Should be able to write about the recent classification of periodontal and peri-implant diseases	PO1, PSO3
CO3	Ability to write about diagnosis of periodontal and peri-implant diseases, advanced diagnostic aids, associated risk factor and prognostic factors	PO1, PSO3, PSO4
CO4	Should have knowledge regarding the periodontic-systemic interlink	PO1, PO4, PSO2

CO5	Ability to write about the micro-organisms, microbial virulence factors, microbial dysbiosis and interactions associated with periodontal and per-implant health and disease,	PO1, PSO3,PS O2
CO6	Have knowledge to write about host-microbial interactions associated with periodontal diseases	PO1, PSO3,PS O2
CO7	Have theoretical knowledge regarding the various genetic aspects associated with different forms of periodontal and peri-implant diseases	PO1, PSO3,PS O2
Outcome Evaluation (500 marks) Total Score (200 Summative, 300 formative = 500 marks)		PO CO Mapping
ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO4, CO5, CO6, CO7
ST	EBD Concept Map (1 x 5 = 5 marks)	PO1, PSO2, PSO3 CO4, CO5, CO6

ST	Objectives (50x1 = 50 marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO2, CO3, CO4, CO5, CO6, CO7
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: MDS022 : Periodontics – PAPER I-NORMAL PERIODONTAL STRUCTURE, ETIOLOGY AND PATHOGENESIS OF PERIODONTAL DISEASES,EPIDEMIOLOGY AS RELATED TO PERIODONTICS			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping CO	Outcome analysis 2021 (PERCENTAGE)

ST	Concept Map (4 x 5 = 20 marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO4, CO5, CO6, CO7	80
ST	EBD Concept Map (1 x 5 = 5 marks)	PO1, PSO2, PSO3 CO4, CO5, CO6	82
ST	Objectives (50 x 1= 50 marks)	PO1, PSO1, PSO2, PSO3, PSO4 CO1, CO2, CO3, CO4, CO5, CO6, CO7	84
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		88
FRC	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16	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: MDS: Periodontics – UNIVERSITY PAPER II- PERIODONTAL DIAGNOSIS, THERAPY AND ORAL IMPLANTOLOGY

Course Outcome		PO mapping
CO1	Knowledge about the rationale for periodontal treatment	PO1, PSO2, PSO8
CO2	Ability to write about comprehensive treatment plans based on evidence based approaches	PO1, PSO4
CO3	Knowledge on the various non-surgical treatment approaches	PO1, PSO6, PSO7
CO4	Ability to write about different surgical pocket therapy and their outcomes, advanced hard and soft tissue procedures, perio-plastic surgeries	PO1, PSO8, PSO9, PSO12
CO5	Knowledge about soft and hard tissue lasers used in periodontics and laser assisted periodontal surgical procedures	PO1, PSO10
CO6	Adequate knowledge regarding microsurgery and minimally invasive periodontal surgical approaches	PO1, PSO11
CO7	Interdisciplinary management of complex periodontal and peri-implant cases	PO1, PO4, PSO13
CO8	Supportive periodontal and peri-implant therapy	PO1, PSO14
CO9	Ability to apply evidence based practices in periodontal therapy	PO1, PSO16

	Outcome (500marks)	Evaluation	PO CO Mapping
	Total Score (200 Summative, 300 formative = 500 marks)		
ST	Concept Map (4 x 5 = 20 marks)		PO1, PSO2,PSO4,PSO6,PSO7,PSO8,PSO9,PSO10,PSO11,PSO12,PSO13,PSO14,PSO16 CO1,CO2,CO3,CO4,CO5,CO6,CO7,CO8,CO9
ST	EBD Concept Map (2 x 15 = 30 marks)		PO1, PSO6,PSO7,PSO8,PSO9,PSO12,PSO10,PSO11,PSO16 CO3, CO4, CO5, CO6,CO9
ST	Objectives (50x1 = 50 marks)		PO1,PSO2,PSO8,PSO6,PSO7,PSO8,PSO9,PSO10,PSO11,PSO12,PSO14 CO1, CO3, CO4, CO5,CO6, CO8
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: MDS032: Periodontics – PAPER II- PERIODONTAL DIAGNOSIS, THERAPY AND ORAL IMPLANTOLOGY

OUTCOME ANALYSIS

	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021 (percentage)
ST	Concept Map (4 x 5 = 20 marks)	PO1,PSO2,P SO4,PSO6,P SO7,PSO8,P SO9,PSO10, PSO11,PSO 12,PSO13,P SO14,PSO1 6 CO1,CO2,C O3,CO4,CO 5,CO6,CO7, CO8,CO9	78
ST	EBD Concept Map (1 x 5 = 5 marks)	PO1,PSO6,P SO7,PSO8,P SO9,PSO12, PSO10,PSO 11,PSO16 CO3, CO4, CO5, CO6,CO9	88
ST	Objectives (50 x 1= 50 marks)	PO1,PSO2,P SO8,PSO6,P SO7,PSO8,P SO9,PSO10, PSO11,PSO 12,PSO14	80

		CO1, CO3, CO4, CO5,CO6, CO8	
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		80
FRC	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3,PSO16	80
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: Periodontics – UNIVERSITY PAPER III- ESSAY (DESCRIPTIVE AND ANALYSING TYPE QUESTIONS)		
Course Outcome		PO mapping
CO1	Should be able to perform evidence based analysis in recent advances in etiopathogenesis, Host-Microbe interactions, Risk factors.	PO1,PSO2,PSO3
CO2	Critical analyses of recent advances in therapeutics, treatment plan, periodontal surgical and implant procedures.	PO1,PSO9,PSO10,PSO11,PSO12,

		PSO14, PSO16
CO3	Critically analyse and write about the effectiveness of recent advances in treatment protocols for periodontal and peri-implant diseases based on evidence based practices	PO1,PS O9, PSO10, PSO11,P SO12,PS O13,PSO 14,PSO1 5,PSO16
Outcome Evaluation (500 marks) Total Score (200 Summative, 300 formative = 500 marks)		PO CO Mapping
ST	Concept Map (4 x 5 = 20 marks)	PO1,PSO2,PS O3,PSO9,PSO 10,PSO11, PSO12, PSO14, PSO16 CO1,CO2
ST	CAT (2 x 15 = 15 marks)	PO1,PSO2, PSO3, PSO9,PSO10,PSO11,PSO 12,PSO13,PSO14,PSO15, PSO16 CO1,CO2,CO3

ST	Objectives (50x1 = 50 marks)	PO1,PSO2, PSO3, PSO9, PSO10, PSO11,PSO12,PSO14,PS O16 CO1,CO2
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: Periodontics – UNIVERSITY PAPER III- ESSAY (DESCRIPTIVE AND ANALYSING TYPE QUESTIONS)			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021 (percentage)
ST	Concept Map (4 x 5 = 20 marks)	PO1,PSO2, PSO3,PSO9 ,PSO10,PS O11, PSO12, PSO14, PSO16	78

		CO1, CO2	
ST	CAT (15x2= 30 marks)	PO1,PSO2, PSO3, PSO9,PSO1 0,PSO11,PS O12,PSO13, PSO14,PSO 15,PSO16 CO1,CO2,C O3	79
ST	Objectives (50 x 1= 50 marks)	PO1,PSO2, PSO3, PSO9, PSO10, PSO11,PSO 12,PSO14,P SO16 CO1,CO2	80
FT	Weighted percentile scores of periodic test converted for 100 marks		78
FT	Mean ARMS daily participation score converted for 100 marks		79
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: MDS052: Periodontics practicals		
Course Outcome		PO mapping
CO1	Should be able to correctly diagnose the case (short case and long case) and frame the appropriate treatment plan and should be able to predict the prognosis.	PO1,PS O4,PSO8
CO2	Assessment of surgical skills by performing periodontal flap surgical procedures. Ability to justify each and every step of the surgical procedure.	PO1,PS O7
CO3	Ability to provide post operative care and instructions including prescription writing and patient motivation. Case review has to be done.	PO1,PS O15
Outcome Evaluation (200 marks)		PO CO Mapping
Total Score		
50 marks -case presentation		PO1,PSO4
50 marks- incision, reflection, debridement		, PSO8,PSO7,PSO15
30 marks- regenerative and resective procedures,		CO1, CO2, CO3
20 marks- suturing and post operative care		
50 marks- short case presentation		

COURSE DETAILS: MDS052: Periodontics practicals**OUTCOME ANALYSIS**

	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping	CO	Outcome analysis 2021 (percentage)
SP	Case evaluation and treatment planning (20 x 1 = 20 marks)	PO1,PSO4, PSO8,PSO7, PSO15 CO1, CO2, CO3		72
SP	Surgery (50 x 1 = 50 marks)	PO1,PSO4, PSO8,PSO7, PSO15 CO1, CO2, CO3		79
SV	VIVA (30 marks)	PO1, PO2, PSO4, PSO8,PSO7, PSO15 CO1, CO2, CO3		78
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks			82
FR C	Research poster / Paper presentation/ Publication scores/ Awards-50 marks	PO3, PSO16		80
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 		
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Course Details: MDS062: Periodontics Grand viva		
Course Outcome		PO mapping
CO1	Should have sufficient theoretical knowledge on the basic periodontal tissues, etiopathogenesis, systemic influences and risk factors associated with conditions affecting the periodontium.	PO1, PO2,PS O1
CO2	Ability to justify principles behind surgical and non surgical periodontal therapy and recent advances with scientific evidences	PO1, PO2, PSO4
CO3	Should have knowledge regarding advances in the periodontal diagnostic, therapeutic and implantology and various peri implant conditions with reasoning .	PO1, PO2, PSO14
Outcome Evaluation (100 marks)		PO CO Mapping
Total Score (100 marks viva)		

		PO1, PO2, PSO1,PSO 4,PSO14. CO1, CO2, CO3
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	Outcome Evaluation SUMMATIVE THEORY-70 SUMMATIVE PRACTICALS-72	
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Course Details: MDS: Periodontics – LIBRARY DISSERTATION		
Course Outcome		PO mapping
CO1	Should have the ability to carry out a systematic review of all the current research material available on a given topic	PO3, PSO16
CO2	Carry out literature search	PO3, PSO16

CO3	Should be able to perform appropriate statistics and arrive at a conclusion	PO3, PSO16
CO4	Ability to critically analyse the results and present the findings of the research in a scientific manner useful to the field of Periodontics	PO3, PSO16
	Outcome Evaluation (100 marks)	PSO16
	Total Score	CO1-CO4

Course Details: MDS: Periodontics – DISSERTATION		
Course Outcome		PO mapping
CO1	Ability to identify a research problem, propose and compare an outcome as a solution and carry out the study in the study population	PO3, PO6, PSO16
CO2	Formulate the study methodology and design, sample size selection based on formula and apply the appropriate statistical analysis	PO3, PSO16
CO3	Carry out and complete the research study and present the results after completing the statistical analysis using SPSS softwares	PO3, PSO16

CO4	Present the result along with discussion and interpretation of the results in a scientific manner. Finally conclude the research by answering the research question.	PO3, PSO16
Outcome Evaluation (100 marks)		PO3, PSO16
Total Score		CO1-CO4

Course Details: MDS: Periodontics – CO-CURRICULAR CONTRIBUTIONS		
Course Outcome		PO mapping
CO1	Presentation of scientific paper and poster presentations in National and International Conferences	PO2, PO3, PSO16
CO2	Scientific publications of systematic reviews, Metal analysis, Original research, case reports	PO3, PSO16
CO3	Attending and participating in CDE workshops and programs, scientific webinars	PO2, PSO16

CO4	Attending, participating and presenting in Inter and Intra-collegiate scientific competitions.	PO2, PSO16
	Outcome Evaluation (100 marks)	PO2, PSO16
	Total Score	CO1-CO4

Course Details: MDS: Periodontics – INTERNAL ASSESSMENT		
Course Outcome		PO mapping
CO1	Periodic theoretical assessment of the normal anatomy, etiopathogenesis of periodontal and peri-implant diseases, non-surgical and surgical treatments, recent advances including lasers, microsurgery, minimally invasive periodontal procedures	PO1,PS O1-PSO 16
CO2	Completion of clinical quota, special cases of advanced periodontal surgical procedures	PO1,PS O6,PSO7 ,PSO8.P SO9,PS O10,PSO

		11,PSO1 2,PSO13 ,PSO14, PSO15
CO3	Scientific paper and poster presentation in National, International Conferences, Inter and Intra-collegiate Competitions,	PO2, PSO16
CO4	Attending CDE Programs, webinars and workshops	PO2, PSO16
CO5	Periodic assessment of seminar and Journal Club presentations	PO2, PO3, PSO1-P SO16
CO6	Mastery of clinical skills, efficiency, patient communication and interpersonal skills, sincerity and overall discipline and conduct	PO1, PO2, PO6, PSO4,PS O5,PSO6 ,PSO7,P SO8,PS O9,PSO1 0,PSO11, PSO12,P SO13,PS O14,PSO 15

	Outcome Evaluation (100 marks)	PSO1-PSO16 CO1-CO6
	Total Score	

CREDIT COURSE

Course Details: MDS 252 Lasers In Dentistry-Credit course		
Course Outcome		PO MAPPING
CO 1	Should have integrated knowledge on laser physics, fundamental properties, types and applications of lasers.	PO1, PSO 10
CO 2	Have sound knowledge about different types of lasers and working parameters of all types of dental lasers.	PO1, PSO 10
CO 3	Should have sound knowledge about laser safety protocol.	PO1, PSO 10
CO 4	Should have clinical skills to perform various laser assisted oral surgical procedures using both soft tissue and hard tissue lasers.	PO1, PSO 10
CO 5	Should have sound knowledge and treatment mastery about low level laser therapy , photodynamic therapy.	PO1, PSO 10
	Outcome Evaluation (100 marks) Mapping	PO CO MAPPING
SP	Laser case presentation (30 marks)	PO1, PSO 10, CO 1, CO 2,

		CO 3, CO 4
SP	Laser assisted case (50 marks)	PO1, PSO 10 CO 6, CO 7
SV	VIVA (20 marks)	PO1, PO2, PSO 10, CO 6, CO 7
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 252 Lasers In Dentistry-Credit course			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021 (percentage)
SP	Laser case presentation (30 marks)	PO1, PSO 10, CO 1, CO 2, CO 3, CO 4	79
SP	Laser assisted case (50 marks)	PO1, PSO 10 CO 6, CO	78

		7	
SV	VIVA (30 marks)	PO1, PO2, PSO 10, CO 6, CO 7	80
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		82
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 			

Course Details: MDS 253: Platelet Concentrates- Credit course		
Course Outcome		PO Mapping
CO1	Have theoretical knowledge on physiology of blood components, platelets and its Contents, Physiological Functions and its role in Periodontal regeneration	PO1, PSO16
CO2	Competent to withdraw venous blood from different sites in the patient for centrifugation	PO1, PSO16
CO3	Sound knowledge on different centrifugation machines, methods and protocols for preparing the different platelet concentrates	PO1, PSO16
CO4	Clinical dexterity to handle different Platelet concentrates- Platelet Rich Protein (PRP), Platelet Rich Fibrin (PRF)- L PRF, A PRF, PRGF, I- PRF, sticky bone preparation.	PO1, PSO16
Outcome Evaluation (100 Marks)		PO CO Mapping

ST	Evaluation - Objectives (50 x 1 = 50 marks)	PO1, PSO 16, CO1, CO2, CO3, CO4.
SP	Practicals (50 marks) (Documentation - hand's on cases)	PO1,PSO16, CO1, CO2, CO3, CO4.
Legend: <ul style="list-style-type: none"> • ST SUMMATIVE THEORY, • SP SUMMATIVE PRACTICAL 		

COURSE DETAILS: MDS 253: Platelet Concentrates- Credit course				
OUTCOME ANALYSIS				
	Outcome Evaluation (100 marks) Total Score (100)	PO Mapping	CO	Outcome analysis 2021 (percentage)
ST	Evaluation - Objectives (50 x 1 = 50 marks)	PO1, 16,	PSO CO2, CO3, CO4.	80
SP	Practicals (50 marks) (Documentation - hand's on cases)	PO1, PSO16,	CO1, CO2, CO3, CO4.	80
FC	Practical exercise activity score (100) Documentation of best cases -50 marks			82

	DIAS score -50 marks		
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 			

Course Details: MDS254 : Minimally Invasive Surgery Credit Course			
Course Outcome			PO mapping
CO1	Adequate knowledge about principles, indications and application of Periodontal microsurgery		PO1, PSO17
CO2	Adequate knowledge about principles and applications of magnification systems like dental loupes and operating microscopes		PO1, PSO17
CO 3	Proficient practice of ergonomic postures, manual dexterity for executing periodontal microsurgery		PO1, PSO17
	Outcome Evaluation (100 marks)		PO CO
	Total Score		Mapping
SP	Case evaluation and treatment planning (20 x 1 = 20 marks)		PO1, CO 1, CO 2

SP	Surgery (50 x 1 = 50 marks)	PO1, CO 1, CO 2, CO 3
SP	Viva (30 marks)	PO1,PO2, CO 1, CO 2, CO 3

COURSE DETAILS: MDS254 : Minimally Invasive Surgery Credit Course			
OUTCOME ANALYSIS			
	Outcome Evaluation (100 marks) Total Score (100)	PO CO Mapping	Outcome analysis 2021 (percentage)
SP	Case evaluation and treatment planning (20 x 1 = 20 marks)	PO1, CO 1, CO 2	79
SP	Surgery (50 x 1 = 50 marks)	PO1,CO 1, CO 2, CO 3	78
SV	VIVA (30 marks)	PO1,PO2, CO 1, CO 2, CO 3	80
FC	Practical exercise activity score (100) Documentation of best cases -50 marks DIAS score -50 marks		82
Legend:			

- ST SUMMATIVE THEORY,
- SP SUMMATIVE PRACTICAL,
- SV SUMMATIVE VIVA,
- FT FORMATIVE THEORY,
- FP FORMATIVE PRACTICAL,
- FC FORMATIVE CLINICAL

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