

<b>INTRODUCTION</b>					
The syllabus below exhibits the comprehensive description of the topics taught in the Postgraduate Certificate. Please note that parts of the PG Certificate will be online. Practical components of the PG Certificate will be performed by the students on the 2-day sessions. All lectures and course material are available in the digital format as well. The 2-day sessions used in the PG Certificate are intense immersive orthodontic seminars, workshops, tutorials and case discussions designed to encourage the students to analyse their own cases with a critical and orthodontic eye. Students must complete the entire syllabus to attain the certificate. The PG Diploma syllabus is not outlined here.					
<b>Colour Key:</b>		<b>Orthodontic Fundamentals</b> These topics are necessary to learn if one is to perform any orthodontics at any age or experience. These are primary topics which are non-specific to the type of appliance one is using.	<b>Aligner Specific Methods</b> These topics are specific to aligner orthodontics, they will be fundamental if one is to perform orthodontics using any aligner system which uses digital clinical simulations in the world.	<b>Fixed Specific Methods</b> These topics are broadly for clinicians performing fixed orthodontics however also to those who perform aligner therapies in more complex cases where sectional appliances may be needed.	<b>Combination of Both</b> These topics are important for both aligner as well as fixed orthodontics and are fundamental in their application on the quality of either treatment method.
DAY 1	TOPIC	AIMS	OBJECTIVES	METHOD OF TEACHING	METHOD OF ASSESSMENT
RED – Online Only					
	COURSE INTRO & WHO WE ARE	The student has an Introduction to the structure off the course and the Cephtactics background.	<ul style="list-style-type: none"> <li>Understand structure of the course</li> <li>Be aware of the time limitation</li> <li>Understand the background of the lecture/training team</li> <li>Be able to adhere to the rules of the program</li> </ul>	FACE TO FACE LECTURE	NA
1.1	INTRO TO ORTHO & HISTORY	The student should be aware off the basic premise and history of orthodontics through the past 100 years.	<ul style="list-style-type: none"> <li>Understand the basics of 20<sup>th</sup> and 21<sup>st</sup> century orthodontics</li> <li>Be able to see the direction of evolution of orthodontics</li> <li>Understand major changes in orthodontics</li> <li>Understand how these have affected orthodontics over the period</li> <li>Be able to correlate this with the future of orthodontics during the course</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	MID COURSE MCQ
1.2	GROWTH & DEVELOPMENT	The student should know of the basics of growth and development as related to orthodontics.	<ul style="list-style-type: none"> <li>Understand the definitions used in growth and development</li> <li>Understand basic cephalon caudal patterns as well as the relevance of the pituitary gland in growth</li> <li>Understand the differences between centres and sites</li> <li>Understand the origins of symmetry</li> <li>Understand pre- and post-natal facial growth as well as growth spurts</li> <li>Know of different bone formation</li> <li>Realise maxillary, mandibular and other growth methods</li> <li>Understand different mechanisms of growth in the head and neck</li> <li>Understand Bjork's Studies and skeletal micro/macro rotation</li> <li>Understand the different theories of growth and development</li> <li>Understand that form is defined by function</li> <li>Be aware of various growth studies present around the world</li> <li>Be aware of basic anthropology of the head and neck</li> <li>Understand relevance of genetics in growth and development</li> <li>Understand the relevance of growth in orthodontics</li> <li>Understand how to measure basic growth and development</li> <li>Be able to correlate clinical application of growth and development</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	MID COURSE MCQ
1.3	BONE BIOLOGY & TOOTH MOVEMENT	The student should understand basic bone biology and the way that tooth move at a molecular level.	<ul style="list-style-type: none"> <li>Understand various ways in which tooth movement has been interpreted</li> <li>Be aware of the various cellular and non-cellular components of the periodontal complex</li> <li>Understand the methods in which force is transduced to biology</li> <li>Apply the form is defined by function approach</li> <li>Understand the equilibrium theory inside the oral cavity</li> <li>Understand the various theories and modifications on how teeth move over the years since Angle</li> <li>Able to discern the change between a macro to a micro approach in tooth movement and the cytoskeletal structures of the same</li> <li>Understand the cAMP pathway, inflammation and mediators, and the relevance to orthodontic tooth movement</li> <li>Be aware of intracellular changes during orthodontic tooth movement</li> <li>Be aware of cytokines, hormones, and other inflammatory components in orthodontic tooth movement</li> <li>Be aware of the relevant growth factors in orthodontic tooth movement</li> <li>Be able to understand the various drugs and medications affecting orthodontic tooth movement</li> <li>Understand clinical application of factors affecting tooth movement</li> </ul>	FACE TO FACE LECTURE (0.5 UNITS)	MID COURSE MCQ
1.4	OCCLUSION BASICS	The student should understand basic occlusal terms and understand the normal occlusal setup.	<ul style="list-style-type: none"> <li>Be able to understand the normal gnathological complex</li> <li>Understand and be able to repeat definitions of terms used in the description of the normal gnathological complex</li> <li>Understand the definitions used in occlusal examination</li> <li>Understand the controversies between ICP, RCP, CO and CR</li> <li>Understand the importance of an occlusal examination</li> <li>Be able to perform a basic occlusal examination</li> <li>Be aware of guidance options, mutually protected occlusion etc</li> <li>Understand the importance of condylar position</li> <li>Be aware of different methods of measuring RCP</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	MID COURSE MCQ
1.5	EXAMINATION & DIAGNOSIS	The student should be able to perform a basic and moderately advanced orthodontic examination and be able to diagnose deviations of orthodontic anomalies.	<ul style="list-style-type: none"> <li>Be able to discern the importance of the chief complaint</li> <li>Understand the importance of dental and medical history in orthodontics</li> <li>Be able to perform a comprehensive extra oral orthodontic examination</li> <li>Be able to perform a comprehensive intra oral orthodontic examination</li> <li>Be able to perform a smile analysis</li> <li>Be able to perform a basic TMJ examination</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	MID COURSE MCQ

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			<ul style="list-style-type: none"> <li>Understand the basics of measuring crowding or spacing</li> <li>Be aware of measuring static and dynamic occlusion in orthodontics</li> <li>Know how to perform a Bolton's analysis</li> <li>Understand how to perform a soft tissue examination in orthodontics</li> <li>Be able to give a basic as well as a comprehensive interpretation of an orthodontic examination to communicate to peers</li> <li>Be able to ascertain different malocclusion problems</li> <li>Be able to compartmentalise problems into skeletal, soft tissue, dental as well as "other"</li> <li>Be able to list problems that need to be discussed</li> </ul>		
1.6	RECORDS & PHOTOGRAPHY	The student should be able to provide a comprehensive set of pictures as well as other basic records as necessary to perform an orthodontic diagnosis and treatment plan.	<ul style="list-style-type: none"> <li>Be able to list the basic as well as advanced records required in treating orthodontic patients</li> <li>Be able to take good impressions and scans for orthodontic purposes</li> <li>Ensure a basic photography set is taken for all patients and regularly</li> <li>Understand the correct method to take the set</li> <li>Understand variations of the set</li> <li>Understand how to use a DSLR camera for macro photography</li> <li>Understand the different lenses used as well as flashes</li> <li>Understand the different settings required for extra and intra oral orthodontic photography</li> <li>Be aware of different retractors and mirrors used in orthodontics as well as the correct method to use them</li> <li>Understand when to use auxiliary equipment</li> <li>Be able to use basic photographic manipulation methods</li> <li>Understand the importance of photography in orthodontics</li> <li>Understand how to ensure safe photographic record storage</li> <li>Understand the basics of GDPR</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	MID COURSE MCQ
1.7	CEPHALOMETRY BASICS & PRACTICAL	The student should be able to perform a basic cephalometry examination and be able to interpret other analysis to a basic degree.	<ul style="list-style-type: none"> <li>Be aware of the importance of 2D cephalometry in orthodontics</li> <li>Be able to take a cephalogram if necessary</li> <li>Understand the conditions where a cephalogram would assist</li> <li>Understand the various basic methods of cephalometric analysis</li> <li>Understand the relevance of soft and hard tissue points</li> <li>Be able to detect the various soft and hard tissue points</li> <li>Understand the relevance of different planes and angles</li> <li>Be able to detect and interpret the different planes and angles</li> <li>Understand a basic soft tissue analysis</li> <li>Be able to perform the Modified Eastman Analysis</li> </ul>	FACE TO FACE LECTURE AND PRACTICAL (0.5 UNITS)	MID COURSE MCQ
1.8	ALIGNER BASICS	The student should understand the basics of aligner methodology.	<ul style="list-style-type: none"> <li>Be aware of the basic methodology of aligners</li> <li>Understand the processes of aligner usage including the impression/scanning</li> <li>Understand the process behind the submission</li> <li>Understand the development of the clinical simulation</li> <li>Understand the revision of the clinical simulation</li> <li>Understand the need for attachments, staging and overcorrection, hypercorrection</li> <li>Be aware of the different attachments available, the active and passive surfaces</li> <li>Understand the arch form and length with respect to aligners</li> <li>Understand the pearl necklace effect, collisions, TIR protocols, COS correction, reciprocal movements etc</li> <li>Be aware of the clinical simulation importance</li> <li>Be aware of the pros and cons of aligners in general</li> <li>Understand the difficult and easy movements in aligners</li> <li>Understand the different movement allowed with aligners</li> <li>Be aware of auxiliary options in orthodontic aligners, including elastics, power-arms, chicane techniques etc</li> <li>Different aligner modifications</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	MID COURSE MCQ
1.9	INTRO TO ALIGNERS & CASE SELECTION	Students should understand how to carefully assess aligner case selection.	<ul style="list-style-type: none"> <li>Understand the limitations of aligner therapy</li> <li>Understand the problems of aligners in different malocclusions</li> <li>Understand the importance of attachments, elastics, overcorrection and staging</li> <li>Be aware of pre aligner orthodontic therapy</li> <li>Be able to ascertain cases for aligner or fixed appliance therapy</li> </ul>	FACE TO FACE LECTURE (0.5 UNITS)	MID COURSE MCQ
1.10D	CHRONOLOGY OF DENTAL DEVELOPMENT	Students should understand to the highest level the chronology of dental development.	<ul style="list-style-type: none"> <li>Be able to understand the importance of dental chronology</li> <li>Understand the dental chronology of deciduous teeth</li> <li>Understand the dental chronology of permanent teeth</li> <li>Know the terms used in deciduous dentition</li> <li>Know and recall the terms used in mixed dentition</li> <li>Know and recall the terms used in permanent dentition</li> <li>Able to recall dental age as per radiographs</li> <li>Able to recall dental age as per dental models</li> <li>Understand the relevance of radiographic vs clinical dental age assessment</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
1.11D	NOMENCLATURE OF OCCLUSION	Students should know definitions of occlusal terms to a high level.	<ul style="list-style-type: none"> <li>Be able to define terms used to describe static occlusion</li> <li>Be able to define terms used to describe dynamic occlusion</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
1.12D	CEPHALOMETRY COMPLEX	Students should know some of the more complex cephalometric techniques and their application.	<ul style="list-style-type: none"> <li>Understand at least 2 analyses used in AP deduction</li> <li>Understand at least 2 analyses used in vertical deduction</li> <li>Understand the Tweeds triangle to a degree</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ

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			<ul style="list-style-type: none"> <li>Be aware of modifications of the same</li> <li>Be able to detect and place stable structures in the mandible</li> <li>Be able to detect and place stable structures in the maxilla</li> <li>Be able to detect and place stable structures in the cranial base</li> <li>Understand how to detect rotations</li> <li>Understand how to superimpose cephalograms</li> <li>Understand and be aware of errors in cephalometry</li> <li>Be aware of digital cephalometric techniques</li> </ul>		
1.13D	IMAGING	Students should know different imaging techniques, benefits and risks known in orthodontics and when to use them.	<ul style="list-style-type: none"> <li>Understand the importance of imaging in orthodontics</li> <li>Be able to justify further imaging in orthodontics</li> <li>Understand the wavelength spectrum</li> <li>Understand the importance, pros and cons of 2D imaging in orthodontics</li> <li>Understand the importance, pros and cons of cephalometry in orthodontics</li> <li>Understand the importance, pros and cons of CBCT in orthodontics</li> <li>Understand the importance, pros and cons of MRI in orthodontics</li> <li>Understand the importance of rendering</li> <li>Know the inaccuracies of imaging in orthodontics</li> <li>Be aware of advances in the field of imaging in orthodontics</li> <li>Understand the basics of scanning</li> <li>Know how to use the scanning software as well as hardware</li> <li>Be aware of the detrimental effects of imaging in orthodontics</li> <li>Be aware of the benefits of AR and VR</li> <li>Understand the methods of 3D printing</li> <li>Be able to use software to 3D print models</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
1.14D	CBCT	Students should know the different reasons to use a CBCT as well as the risks and benefits of the same as well as common anatomical markers.	<ul style="list-style-type: none"> <li>Know the history of the CBCT</li> <li>Understand the importance of CBCT in orthodontics</li> <li>Be able to ascertain the pros and cons of the CBCT</li> <li>Understand and be able to interpret the dangers of the CBCT</li> <li>Be able to detect normal anatomical markers in a CBCT</li> <li>Be able to detect abnormal anatomical markers in a CBCT</li> <li>Know the various software used in CBCT manipulation</li> <li>Be able to render and print a CBCT image to assist in diagnosis and treatment planning</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
1.15D	MULTIDISCIPLINARY PROCESS (MAP)	The student should be able to perform a comprehensive risk and benefit assessment of multi-disciplinary methods.	<ul style="list-style-type: none"> <li>Understand the MAP protocol</li> <li>Introduce and outline the 10 key stages of multidisciplinary workflow</li> <li>Be able to harness "the end in mind approach"</li> <li>Understand the importance of the systemic and hygienic phase of treatment</li> <li>Understand the treatment sequence and be able to adapt to patients</li> <li>Know the position of the orthodontic phase of treatment</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
<b>DAY 2</b>	<b>TOPIC</b>	<b>AIMS</b>	<b>OBJECTIVES</b>	<b>METHOD OF TEACHING</b>	<b>METHOD OF ASSESSMENT</b>
2.1	CASE DIAGNOSIS	Students should be able to examine the patient as well as ascertain normal and abnormal parameters from the records provided.	<ul style="list-style-type: none"> <li>Be able to perform a complex orthodontic examination of the records</li> <li>Be able to detect any extra oral deviations</li> <li>Be able to detect any intra oral deviations</li> <li>Be able to present a diagnosis in the form of the RCS</li> <li>Be able to present a list of problems</li> </ul>	SEMINAR FACE TO FACE (1 UNITS)	MID COURSE MCQ
2.2	AETIOLOGY	Students should be completely aware of all causes of malocclusions and the importance of finding the cause rather than treating injudiciously.	<ul style="list-style-type: none"> <li>Understand the various definitions of malocclusions found in orthodontics</li> <li>Understand various classifications of aetiology over the years</li> <li>Be able to classify different malocclusions as part of a skeletal, soft tissue or dental method</li> <li>Understand the relevance of syndromes in orthodontic malocclusions and be able to name important ones as well as relevant associations to the malocclusion</li> <li>Be able to detect medical causes of any malocclusions</li> <li>Be able to justify posture as a cause of malocclusion</li> <li>Be able to diagnose trauma as a cause of malocclusion</li> <li>Know various modes of treatment of trauma in orthodontics</li> <li>Understand the importance of habits, especially sucking or thrusting habits</li> <li>Know the importance of pacifier selection and alleviation of the same</li> <li>Understand how to avoid, eliminate habits at a basic level</li> <li>Understand to a comprehensive level, the swallowing mechanism</li> <li>Know and be able to treat nail biting</li> <li>Know the relevance of speech and breathing issues</li> <li>Understand the pathophysiology of adenoid faeces as well as treatment options of the same</li> <li>Understand the pathophysiology of bruxism and clenching</li> <li>Understand the importance of detecting supernumeraries and the cause and treatment of the same</li> <li>Understand the importance of detecting hypodontia and the cause</li> <li>Understand the importance of size and shape discrepancies in orthodontics and the cause</li> <li>Be able to diagnose mucosal causes of malocclusion including high freni, as well as the treatment of the same and the controversies behind the treatments</li> <li>Be aware of other environmental factors such as pipe smoking, piercings etc.</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	MID COURSE MCQ

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			<ul style="list-style-type: none"> <li>Realise and be aware of premature loss of deciduous and permanent and prolonged retention of deciduous teeth and the relevance to malocclusion occurrence</li> <li>Be aware of the possibilities of ectopic germs, PFE, ankylosis etc.</li> <li>Understand the possibilities of iatrogenic effects resulting in malocclusions including poor orthodontics, poor restorations etc.</li> </ul>		
2.3	RX PLANNING	Students should be able to formulate a comprehensive and fully ethical treatment plan from the examination as well as the auxiliary information from diagnostic data and be able to provide multiple alternative treatment plans to patients.	<ul style="list-style-type: none"> <li>Know the definition of a treatment plan</li> <li>Understand the importance of allowing time to deduce a treatment plan</li> <li>Be able to formulate a comprehensive problem list</li> <li>Be able to deduce which of the problems are possible to correct</li> <li>Understand that orthodontics is not a finite entity</li> <li>Understand how to develop aims and objectives</li> <li>Know the importance of being conservative</li> <li>Know the definition of "therapeutic diagnosis"</li> <li>Understand the differences between adults and children in orthodontics both in physiological as well as a psychological understanding</li> <li>Understand how to estimate a treatment time for the patient</li> <li>Understand the importance of and be able to provide records for the treatment planning session</li> <li>Understand how to develop a sequence of events once the treatment has been planned</li> <li>Know the importance of a consultation report and how to formulate the same</li> <li>Understand the sequence of events in fixed and aligner orthodontics</li> <li>Understand the importance of referral both in orthodontics as well as other fields of dentistry</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	MID COURSE MCQ
2.4	SPACE PLANNING PRACTICAL	Students should be able to technically plan a case using basic mathematics.	<ul style="list-style-type: none"> <li>Understand the importance of space planning</li> <li>Be aware of the benefits and disadvantages of space planning</li> <li>Be able to provide a basic space planning technique for the patient</li> <li>Understand that there are multiple methods of aligning teeth</li> <li>Be aware that teeth move in 3D and hence there are many ways of attaining space</li> <li>Be aware of the relevance of the inter-canine width, proclination, Curve of Spee rectification</li> <li>Understand the importance of a divider as well as ruler</li> <li>Understand the importance of a digital analysis as well as the errors involved</li> <li>Be able to perform a simple space planning technique</li> </ul>	FACE TO FACE LECTURE AND PRACTICAL (1 UNITS)	MID COURSE MCQ
2.5	MALOCCLUSION	Students should be able to detect, define and prioritise various malocclusions in the mouth.	<ul style="list-style-type: none"> <li>Know the methods of classification of malocclusions</li> <li>Be able to understand the abnormal gnathological complex</li> <li>Understand and be able to repeat definitions of terms used in the description of the abnormal gnathological complex</li> <li>Understand the definitions used in orthodontic examinations of malocclusion</li> <li>Understand the various definitions of crossbites and other transverse discrepancies</li> <li>Understand the various measurements of AP occlusion</li> <li>Understand the various vertical malocclusion discrepancies</li> <li>Be able to note deviations and discrepancies in dynamic occlusion</li> <li>Understand the importance of TMJ auscultation and symptom recording</li> <li>Be aware of different methods of measuring early contacts</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	MID COURSE MCQ
2.6	ALIGNER BIOMECHANICS	Students should be able to harness all forms of options with regards to aligner biomechanics with all forms of mechanics.	<ul style="list-style-type: none"> <li>Understand the importance of attachments positioning and aligning</li> <li>Understand the advantages of aligners over fixed appliances</li> <li>Consider the various aligner systems and their differences</li> <li>Know the various types of attachments used</li> <li>Understand the research behind attachments dimension and materials</li> <li>Understand the research of overcorrection, hypercorrection, elastics, staging etc</li> <li>Be able to understand the various methods of moving teeth with aligners</li> <li>Be aware of the benefits and disadvantages of aligners</li> <li>Understand how aligners control movement</li> <li>Know the importance of the patient cooperation during aligner therapy</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	MID COURSE MCQ
2.7D	TREATMENT PLANNING ADVANCED	Students should be able to perform an advanced form of treatment planning based on non-controllable parameters.	<ul style="list-style-type: none"> <li>Be aware of problems that are out of your control</li> <li>Be able to understand the limitations of full unit corrections</li> <li>Be able to understand the limitations of skeletal AP corrections</li> <li>Be able to understand the limitations of skeletal vertical corrections</li> <li>Be able to understand the limitations of severe dental and skeletal asymmetries</li> <li>Understand the problems associated with TMJ discrepancies with symptoms</li> <li>Know the risks of treating elderly patients</li> <li>Know the risks of treating very young patients</li> <li>Understand the risks of treating patients with endo, perio, endo-perio problems</li> <li>Be aware of transfer patients' limitations</li> <li>Understand how to formulate a transfer patient protocol</li> <li>Be able to detect trust issues in patients</li> <li>Understand how to retrieve trust in patients</li> <li>Be able to adapt to changes in the treatment plan and relay to the patient with care</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
2.8D	CASE SEMINAR	Students should be able to use a protocol for case diagnosis and treatment planning of simple to complex cases.	<ul style="list-style-type: none"> <li>Be able to develop the form of a structured case assessment</li> <li>Understand the importance of the time required for treatment planning</li> <li>Understand the importance of case documentation and record storage</li> <li>Be able to perform a complex orthodontic examination of the records</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ

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			<ul style="list-style-type: none"> <li>• Be able to detect any extra oral deviations</li> <li>• Be able to detect any intra oral deviations</li> <li>• Be able to present a diagnosis in the form of the RCS</li> <li>• Be able to present a list of problems</li> <li>• Understand the importance of the above to develop a treatment plan</li> <li>• Be able to develop a list of treatment plans</li> <li>• Be able to develop a retention protocol</li> </ul>		
2.90	CLINICAL SIMULATION PROTOCOLS	Students should be able to develop a formulated protocol for clinical simulation assessment and management.	<ul style="list-style-type: none"> <li>• Understand the importance of the clinical simulation in aligner therapy</li> <li>• Understand a simple protocol for clinical simulation approval</li> <li>• Know the various tools present in all system software</li> <li>• Know the limitations with digital analysis</li> <li>• Be able to compare and monitor aligner cases via the clinical simulation</li> <li>• Know how Dental Monitoring works</li> <li>• Be able to adapt and evolve treatment plans during clinical simulations</li> <li>• Know how to stage and plan orthodontic treatment with aligners</li> <li>• Understand the different methods to wear, repair and order correct</li> <li>• Know various tooth movement charts present in the system</li> <li>• Be able to consider auxiliaries in orthodontics with aligners and how to request them</li> <li>• Understand the importance of tracking and failure of the case</li> <li>• Methods to reduce numbers of aligners</li> <li>• Be able to review all parts of the software during the clinical simulation</li> <li>• Be aware of different systems and the ability to note relevant issues with various software</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
2.10D	NOMENCLATURE OF MALOCCLUSION	Students should know definitions of malocclusion terms to a high level.	<ul style="list-style-type: none"> <li>• Be able to define terms used to describe static malocclusion</li> <li>• Be able to define terms used to describe dynamic malocclusion</li> <li>• Be able to define terms used to describe TMD</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
2.11D	RLSA	Students should understand the Royal London Space Analysis to a high level.	<ul style="list-style-type: none"> <li>• Understand the RLSA to a high level</li> <li>• Understand the benefits of the RLSA</li> <li>• Understand the disadvantages of the RLSA</li> <li>• Be able to use the RLSA to a complex degree</li> <li>• Be able to adapt the RLSA to different malocclusions</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
2.12D	WHEN TO REFER	Students should understand their limitations and the different levels of referral available both at a primary as well as secondary level.	<ul style="list-style-type: none"> <li>• Understand the problem list to a degree of difficulty</li> <li>• Understand the difficulty of various malocclusions</li> <li>• Be aware of the benefits of various orthodontic devices</li> <li>• Be aware of the risks of patients in a psychological component</li> <li>• Be aware of the risks of patients with regards to logistics</li> <li>• Understand the importance of referring patients as well as advising for 2<sup>nd</sup> opinions</li> <li>• Understand the importance of developing a comprehensive note taking procedure for the same</li> <li>• Be able to develop a comprehensive transfer document</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
2.13D	DIGITAL RESCUE WITH ALIGNERS	Students should be able to understand the stages of preparing a digital Rescue setup.	<ul style="list-style-type: none"> <li>• Understand the history and importance of Rescuing setup</li> <li>• Understand the protocols required for a Rescuing setup</li> <li>• Be able to understand the protocol in a digital setups</li> <li>• Be able to structure the procedures required in digital setups</li> <li>• Be aware of different levels of orthodontics, level 1/2/3</li> <li>• Be aware of how to use different software systems</li> <li>• Understand how collision objections work</li> <li>• Be aware of the importance of lower canine torque</li> <li>• Be aware of the "line of the arch"</li> <li>• Understand the 5 different methods of creating space</li> <li>• Alter the IC, BA, IP widths as needed</li> <li>• Understand the importance of deprogramming and methods of the same</li> <li>• Be able to convert images to STL files</li> <li>• Be aware of ensuring the printing is viable</li> <li>• Print the files to provide aligner fabrication</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
2.14D	CASE 1	Students should be able to examine, diagnose and treatment plan the patient as well as ascertain normal and abnormal parameters from the records provided for the CASE 1.	<ul style="list-style-type: none"> <li>• Be able to perform a complex orthodontic examination of the records</li> <li>• Be able to detect any extra oral deviations</li> <li>• Be able to detect any intra oral deviations</li> <li>• Be able to present a diagnosis in the form of the RCS</li> <li>• Be able to present a list of problems</li> <li>• Understand the importance of the above to develop a treatment plan</li> <li>• Be able to develop a list of treatment plans</li> <li>• Be able to develop a retention protocol</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
2.15D	CASE 2	Students should be able to examine, diagnose and treatment plan the patient as well as ascertain normal and abnormal parameters from the records provided for the CASE 2.	<ul style="list-style-type: none"> <li>• Be able to perform a complex orthodontic examination of the records</li> <li>• Be able to detect any extra oral deviations</li> <li>• Be able to detect any intra oral deviations</li> <li>• Be able to present a diagnosis in the form of the RCS</li> <li>• Be able to present a list of problems</li> <li>• Understand the importance of the above to develop a treatment plan</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ

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ONLINE	TOPIC	AIMS	OBJECTIVES	METHOD OF TEACHING	METHOD OF ASSESSMENT
			<ul style="list-style-type: none"> <li>Be able to develop a list of treatment plans</li> <li>Be able to develop a retention protocol</li> </ul>		
D1	INTRODUCTION TO ORTHO MATERIALS	Students should be able to identify and classify the different materials used in orthodontics.	<ul style="list-style-type: none"> <li>Be able to understand how materials are classified in orthodontics</li> <li>Know the identifying markers of materials</li> <li>Know the importance of using good quality materials</li> <li>Know the basic regulations of the materials used in orthodontics</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
D2	BASICS OF WIRES	Students should be able to know the basics of wires used in orthodontics.	<ul style="list-style-type: none"> <li>Be able to appreciate the history of the development of the wire</li> <li>Know the reasons why wires are used in orthodontics</li> <li>Know the basic steps in fixed orthodontics</li> <li>Be able to identify different wires used in orthodontics</li> <li>Know the classification of wires for different stages of orthodontics</li> <li>Be able to list various properties of ideal wires used</li> <li>Know the difference between friction and binding and the factors affecting the same</li> <li>Know how to reduce friction and binding, when to do so and the advantages and disadvantages</li> <li>Know the modifications and advancements of various wires used in orthodontics</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
D3	BASICS OF BRACKETS	Students should be able to know the basics of brackets used in orthodontics.	<ul style="list-style-type: none"> <li>Know the reasons why brackets are used in orthodontics</li> <li>Appreciate a basic history of bracket usage in orthodontics</li> <li>Understand the value of pre-adjusted systems</li> <li>Know the value of tip, torque and offset</li> <li>Understand the different parts of the bracket as well as the identifiers</li> <li>Know the differences between slot sizes and their advantages and disadvantages</li> <li>Know the various methods of ligation</li> <li>Know the different materials used in bracket manufacture</li> <li>Understand bracket selection</li> <li>Understand tube selection and identifiers</li> <li>Know of some of the modifications of brace systems</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
D4	WIRE TECHNIQUES	Students should be able to use wires, brackets and auxiliaries in orthodontics with the correct equipment and to a high standard.	<ul style="list-style-type: none"> <li>Know various orthodontic instruments</li> <li>Be able to use the instruments</li> <li>Understand the various methods of anchorage reinforcement using simple wire methods</li> <li>Understand the various methods of ligation</li> <li>Be able to utilise various "rules" in orthodontic wire work</li> <li>Be able to consider different space closure and opening methods</li> <li>Know how to differentiate poor quality wire work</li> <li>Know of the limitations of all methods above</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
D5	MECHANICS & FRICTION	Students should be able to understand simple mechanics and friction.	<ul style="list-style-type: none"> <li>Know the different forces used in orthodontics</li> <li>Be able to consider and develop vector paths in orthodontics</li> <li>Understand and be able to develop moments used in orthodontics</li> <li>Know of the importance of controlling the force used in orthodontics</li> <li>Be able to appreciate the movement is in 3 dimensions and hence plan treatment accordingly</li> <li>Know the difference between fixed vs aligner mechanics</li> <li>Know various methods used in mechanics to reduce friction</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
D6	ANCHORAGE	Students should be able to appreciate anchorage and how to reinforce various forms.	<ul style="list-style-type: none"> <li>Understand the definition and classify anchorage</li> <li>Understand how to assess anchorage demand</li> <li>Be able to enumerate various anchorage sources intra and extra orally</li> <li>Understand factors which can increase or reduce anchorage</li> <li>Consider the benefits and disadvantages of anchorage</li> <li>Be able to note different forms of anchorage</li> <li>Be able to note various mechanics to reduce or increase anchorage</li> <li>Understand how anchorage works with aligners</li> <li>Know the difference between retention and anchorage in aligners</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
D7	ELASTICS	Students should be able to identify and utilise elastics correctly in orthodontics.	<ul style="list-style-type: none"> <li>Be able to classify intra oral elastics</li> <li>Understand the method of action of elastics in orthodontics in various scenarios</li> <li>Be able to correctly choose the elastics in various scenarios</li> <li>Know the different materials used in manufacture of the elastics</li> <li>Know the advantages and disadvantages of elastics in orthodontics</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
D8	AUXILIARIES & ADHESIVES	Students should be able to identify and utilise various auxiliaries in orthodontics.	<ul style="list-style-type: none"> <li>Be able to classify various orthodontic auxiliaries</li> <li>Be able to identify and use various elastomeric</li> <li>Be able to identify and use different coiled equipment</li> <li>Be able to identify and use various attachment items used in orthodontics</li> <li>Know the method of action and when to use various adhesives</li> <li>Understand the methods to place molar and premolar bands</li> <li>Know and be able to use the various auxiliaries used in aligner therapies</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ

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D9	EARLY & INTERCEPTIVE TREATMENT	Students should be able to ascertain where early treatment can be performed and intervene in basic cases.	<ul style="list-style-type: none"> <li>Know the indications and contra indications of early treatment</li> <li>Know the different methods used to intervene</li> <li>Be able to define space maintenance</li> <li>Be able to classify space maintainers as well as their method of action, indications and contra indications</li> <li>Be able to use space maintainers of various types</li> <li>Understand the basics of growth modification in 3 dimensions and the indications and contra indications</li> <li>Understand the basics of the 2x4 appliance and the indications and contra indications</li> <li>Understand the basics of expansion in mixed dentition</li> <li>Understand oral habits and be able to classify them</li> <li>Understand various methods used to correct oral habits</li> <li>Know the importance of constant review in early treatment</li> <li>Be aware of the highly contentious nature of early treatment</li> </ul>	ONLINE ONLY (4 UNITS)	MINI MCQ
D10	TIMING OF TREATMENT	Students should be able to appreciate timing of treatment in orthodontics.	<ul style="list-style-type: none"> <li>Know why timing is important in orthodontics</li> <li>Understand the various methods of ensuring correct timing</li> <li>Be aware of timing errors in orthodontics and how to avoid them</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
<b>MID COURSE ASSESSMENT (MCQ)</b>					

DAY 3	TOPIC	AIMS	OBJECTIVES	METHOD OF TEACHING	METHOD OF ASSESSMENT
3.1	RECAP ON MATERIALS	Students will need to provide concise knowledge on the main materials used in fixed and aligner orthodontics.	<ul style="list-style-type: none"> <li>Understand the differences in instruments used in orthodontics</li> <li>Be able to identify and name materials and instruments used in orthodontics</li> <li>Be able to understand the use of the materials and instruments in question</li> </ul>	FACE TO FACE SEMINAR (0.5 UNITS)	END COURSE MCQ
3.2	CLASS I MALOCCLUSION	Ensure the clinician understands the basics of a Class I malocclusion and its treatment.	<ul style="list-style-type: none"> <li>Be able to define a class I malocclusion</li> <li>Be able to enumerate parts of a class I malocclusion</li> <li>Know the different methods of crowding alleviation</li> <li>Know the different methods of space closure</li> <li>Know the various methods of crossbite correction</li> <li>Know the benefits and disadvantages of extractions</li> <li>Know the benefits and disadvantages of a non-extraction protocol</li> <li>Know the various expansion methods used in space creation</li> </ul>	FACE TO FACE LECTURE (1UNITS)	END COURSE MCQ
3.3	CROWDING & SPACING	Students should be able to know the various methods of measuring spacing and crowding they also need to understand methods of alleviating the above in various malocclusions.	<ul style="list-style-type: none"> <li>Be able to understand the classification of crowding/spacing</li> <li>Understand the definitions of crowding</li> <li>Understand the aetiology of crowding and spacing</li> <li>Understand the inter-canine and intermolar development</li> <li>Understand the congenital and local causes of orthodontics</li> <li>Review the different methods of crowding/spacing analysis</li> <li>Understand the causes of lower incisor crowding</li> <li>Understanding the causes of crowding in mixed dentition</li> <li>Understanding the methods of crowding correction in mixed dentition</li> <li>Understand the methodology of serial extractions</li> <li>Understand the use of the 2x4 appliance</li> <li>Be able to understand and use space maintainers</li> <li>Understand the definitions in spacing, microdontia</li> <li>Be able to develop a simple and complex Bolton's analysis</li> <li>Understand the aetiology of spacing both in medical/dental causes etc</li> <li>Be able to develop treatment plans in spacing</li> <li>Understand different space closure methods</li> <li>Understand the benefits and disadvantages of various space closure mechanics</li> </ul>	FACE TO FACE LECTURE (0.5 UNITS)	END COURSE MCQ
3.4	BOND UP COMPREHENSIVE	Student should be able to know the basics of a simple bond up using fixed appliances for pre-aligner as well as conventional fixed orthodontics.	<ul style="list-style-type: none"> <li>Understand the reasons for an accurate bonding up</li> <li>Understand the materials and instruments required for this bond up</li> <li>Be able to know minor modifications to the bond up</li> <li>Know the stages of a bond up</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
3.5	BOND UP PRACTICAL	Student should be able to perform a simple bond up.	<ul style="list-style-type: none"> <li>Be able to provide an accurate bond up</li> <li>Be able to keep time during the bond up</li> <li>Understand the implications of a poor bond up</li> <li>Be able to scrutinise other people's bond ups to know the different parameters</li> </ul>	PRACTICAL (0.5 UNITS)	END COURSE MCQ
3.6	CLASS I MECHANICS & STAGES OF FA	Students should be able to understand and perform basic mechanics using fixed appliances and be able to utilise them correctly and safely.	<ul style="list-style-type: none"> <li>Be able to stage orthodontics</li> <li>Be able to perform basic wire work to allow efficient mechanics</li> <li>Understand space consolidation</li> <li>Understand anchorage reinforcement</li> <li>Be aware of the fluidity of the mechanics in fixed orthodontics</li> <li>Understand the benefits of pre aligner fixed orthodontics</li> </ul>	FACE TO FACE LECTURE (0.5 UNITS)	END COURSE MCQ

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3.7	WIRE WORK - TYPO 1 (014 NITI)	Students should be able to understand how alignment is performed with fixed appliances.	<ul style="list-style-type: none"> <li>Be able to choose the correct wire for the stage</li> <li>Be able to use NITI wires correctly and efficiently</li> <li>Be able to use NITI wires safely</li> </ul>	PRACTICAL (0.5 UNITS)	END COURSE MCQ
3.8	ADULT ORTHODONTICS	Students should be able to appreciate and adapt to the adult orthodontic patient.	<ul style="list-style-type: none"> <li>Appreciate the psychological approach to orthodontics in adults is different</li> <li>Understand how to sequester the main reason an individual is having treatment</li> <li>Be aware of the time factor and patience of the patient</li> <li>Be able to develop a treatment plan with limited objectives</li> <li>Be able to develop a treatment plan with a reduced radical approach e.g., extractions</li> <li>Be able to develop a treatment plan without the use of extra oral anchorage or superstructures intra orally</li> <li>Understand various periodontal concerns in the adult patient, including the risk of further aggravation</li> <li>Understand various restorative concerns in the adult patient, such as multiple crowns etc.</li> <li>Understand that implant site preparation is a very important part of adult orthodontics</li> <li>Be able to develop a crown lengthening plan with certain systems</li> <li>Know the importance of lingual and aligner therapy in adult orthodontics</li> <li>Be able to plan orthodontics with multiple missing teeth</li> <li>Be able to associate previous orthodontics/dental work as part of the aetiology</li> <li>Understand the risk of TMD is higher in adults</li> <li>Be aware that multidisciplinary treatment is more akin to adult patients</li> <li>Be aware that more aesthetic treatments may be requested</li> <li>Be aware that staging of treatment may be needed in many cases</li> <li>Know the limitations of retention regimens in adults</li> </ul>	FACE TO FACE LECTURE (2 UNITS)	END COURSE MCQ
3.9D	HOW TO MONITOR ORTHO	Students should know what to look at during orthodontic therapy to ascertain problems early.	<ul style="list-style-type: none"> <li>Understand a structured review of the patient</li> <li>Be able to review skeletal changes including the TMJ</li> <li>Be able to review and ascertain success in soft tissue control</li> <li>Be able to ascertain alignment, levelling, bite correction</li> <li>Be able to monitor pre debond/finishing success</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
3.10D	BONDING UP TIPS	Students should be able to know different modifications of bonding up patients in orthodontics.	<ul style="list-style-type: none"> <li>Know that orthodontic customisation is difficult and that modifications may be necessary</li> <li>Understand basic modifications used in deep and open bites</li> <li>Understand basic modifications used in AP malocclusions</li> <li>Understand basic modifications used in transverse discrepancies</li> <li>Know the importance of documenting the modification</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
DAY 4	TOPIC	AIMS	OBJECTIVES	METHOD OF TEACHING	METHOD OF ASSESSMENT
4.1	CASE	Students should be able to examine, diagnose and treatment plan the patient as well as ascertain normal and abnormal parameters from the records provided.	<ul style="list-style-type: none"> <li>Be able to correctly examine the case provided</li> <li>Be able to correctly diagnose the orthodontic malocclusion using the records provided</li> <li>Be able to provide a comprehensive problem list</li> <li>Be able to provide aims and objectives of the treatment</li> <li>Be able to list treatment plans for the case provided with multiple systems</li> <li>Be able to elaborate on the treatment at a step-by-step level</li> <li>Be able to provide a retention protocol on completion</li> </ul>	SEMINAR FACE TO FACE (1 UNITS)	END COURSE MCQ
4.2	WIRE WORK - TYPO 2 (PUSH COIL)	Students should be able to understand how push-coil is used to create space.	<ul style="list-style-type: none"> <li>Be able to choose the correct time to use push-coil</li> <li>Be able to use push-coils correctly and efficiently</li> <li>Be able to use push-coils safely</li> </ul>	PRACTICAL (0.5 UNITS)	END COURSE MCQ
4.3	EXTRACTIONS VS NON-EXTRACTION	Students should be able to know the complex arguments about extraction orthodontics and the options on treating cases with extractions or without.	<ul style="list-style-type: none"> <li>Students should know the complexities of this topic</li> <li>Understand the background of extraction protocols</li> <li>Understand the background of non-extraction protocols</li> <li>Understand the extraction wars and the relevance in orthodontics</li> <li>Understand the factors required for extraction protocols (skeletal, soft tissue, dental, other)</li> <li>Understand the relevant deciduous extractions in orthodontics</li> <li>Understand the relevant permanent extractions in orthodontics</li> <li>Review the various protocols and guidelines with respect to extractions of deciduous and permanent teeth</li> <li>Understand requirement of 3<sup>rd</sup> molar extractions and guidelines</li> <li>Understand the arguments behind the 3<sup>rd</sup> molar extractions</li> <li>Be aware of the effects of the profile after extractions and research of the same</li> <li>Be aware of the effects of TMD after extractions and research of the same</li> <li>Be aware of the effects on breathing after extractions and research of the same</li> <li>Be aware of the effects on relapse after extraction and research of the same</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
4.4	SETTING UP IN ORTHODONTICS	Students should know of the importance of having modifications to clinical practice to accommodate orthodontics.	<ul style="list-style-type: none"> <li>Be aware of the client base the team is treating</li> <li>Know the global change in orthodontic reception and cost implications</li> <li>Be able to develop and limit their scope of practice</li> <li>Understand how location can affect the orthodontics provided</li> <li>Understand the importance and develop an orthodontic team in the practice</li> <li>Develop an efficient clinical workflow</li> <li>Understand the importance of reception, clinical and sterilisation setup in orthodontics</li> <li>Understand the importance of efficient equipment and modifications needed</li> <li>Understand the importance of various instruments and materials and which ones to adopt as a start up</li> <li>Be able to develop an emergency protocol at the clinic</li> <li>Be able to develop a correct paper-trail and data acquisition method as well as a correct storage method</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ

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			<ul style="list-style-type: none"> <li>Be able to adopt a correct software system or adapt to the current one</li> <li>Understand the benefits of using a digital records system</li> <li>Be able to develop and apply ethical marketing in orthodontics</li> </ul>		
4.5	WIRE WORK - TYPO 3 (PIGGYBACK)	Students should understand the benefits of dual arch mechanics in fixed appliances.	<ul style="list-style-type: none"> <li>Be able to choose the correct stage to use a dual arch technique</li> <li>Understand the advantages and disadvantages of the technique</li> <li>Be able to use the dual arch technique efficiently</li> <li>Be able to use the dual arch technique safely</li> </ul>	PRACTICAL (1 UNITS)	END COURSE MCQ
4.6	PSYCHOLOGY OF ORTHODONTICS	Students should understand a basic background on the orthodontic patient psychology.	<ul style="list-style-type: none"> <li>Be aware of the importance of understanding the psychology of patients undergoing orthodontics</li> <li>Be able to accommodate the complexities of the patient's requirements vs their wishes</li> <li>Know the failure of the IOTN in attempting to align a psychological component in orthodontics</li> <li>Be aware of age, sex, race and religion as a factor in orthodontics</li> <li>Understand the seriousness of BDD</li> <li>Understand the seriousness of bullying and suicide</li> <li>Understand the benefits of and limitations of parents and guardians in the clinical setting</li> <li>Be able to develop an understanding of values to the patient</li> <li>Know the methods to attend to expectations which have not been met or are impossible/challenging</li> <li>Know the methods to attend to long treatments, severe and complex cases, relapse</li> <li>Know the methods to attend to poor cooperation</li> <li>Know the methods to attend to pain in orthodontics</li> <li>Be able to plan and develop strategies for the transfer patient</li> <li>Be aware of the stresses involved in our field</li> <li>Be aware of the risks and benefits of the defensive dentistry approach</li> <li>Know how to use different non vocal communicative methods</li> <li>Be aware of the risks and benefits of ethical marketing and social media</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
4.7	WIRE WORK - TYPO 4 (018)	Students should be able to understand how alignment is performed with fixed appliances.	<ul style="list-style-type: none"> <li>Be able to choose the correct wire for the stage</li> <li>Be able to use NiTi wires correctly and efficiently</li> <li>Be able to use NiTi wires safely</li> </ul>	PRACTICAL (0.5 UNITS)	END COURSE MCQ
4.8	FROST APPROACH	Students should be able to formulate a concise and structured method of analysing the clinical simulation provided in aligner therapies.	<ul style="list-style-type: none"> <li>Know the importance of analysing the clinical simulation</li> <li>Understand the limitations of the clinical simulation</li> <li>Be able to understand the development of the clinical simulation</li> <li>Know the measurement error in clinical simulation</li> <li>Be aware of the methods of development of the clinical simulation</li> <li>Understand the different software in the clinical simulation arena</li> <li>Know that the way aligners are planned are different to fixed appliances</li> <li>Know the different methods used by other clinicians in reviewing the simulation</li> <li>Understand the basics of force attachments and where they are required</li> <li>Understand the basics of retentive attachments and where they are required</li> <li>Understand the importance of overcorrection and hypercorrection and when to use them</li> <li>Know the different methods to stage treatments</li> <li>Be able to stage complex treatments</li> <li>Know the different auxiliaries in aligner therapies</li> <li>Be able to engage and utilise treatment auxiliaries</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
4.9D	ARCH COORDINATION	Students should be able to understand the importance of the arch-form and methods to control or change the same.	<ul style="list-style-type: none"> <li>Understand factors affecting arch-forms</li> <li>Be able to classify arch-forms</li> <li>Be able to develop an arch-form strategy for each patient</li> <li>Be able to differentiate and give benefits of various arch-forms in orthodontics</li> <li>Know the various effects of growth on arch-forms</li> <li>Know the various methods to change arch-forms in all forms of orthodontics</li> <li>How to maintain a changed arch-form</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
4.10D	REMOVABLES	Students should know the usage of removable appliances to a good level.	<ul style="list-style-type: none"> <li>Be able to classify removable appliances</li> <li>Be able to provide advantages and disadvantages of various removable retainers</li> <li>Be able to provide indications and contraindications of the same</li> <li>Be able to consider alternative therapies for fixed or aligner orthodontics</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
4.11D	SECTIONAL MECH CLASS I	Students should be able to provide sectional fixed orthodontics to enhance their aligner therapies in Class I malocclusions.	<ul style="list-style-type: none"> <li>Know the different indications for sectional appliances in Class I Malocclusions</li> <li>Be aware of the correct transition period with aligner therapies in Class I Malocclusions</li> <li>Be able to review advantages and disadvantages of sectional appliances in Class I Malocclusions</li> <li>Be able to monitor sectional appliances and ensure safety in Class I Malocclusions</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
DAY 5	TOPIC	AIMS	OBJECTIVES	METHOD OF TEACHING	METHOD OF ASSESSMENT
5.1	CASE	Students should be able to examine, diagnose and treatment plan the patient as well as ascertain normal and abnormal parameters from the records provided.	<ul style="list-style-type: none"> <li>Be able to correctly examine the case provided</li> <li>Be able to correctly diagnose the orthodontic malocclusion using the records provided</li> <li>Be able to provide a comprehensive problem list</li> <li>Be able to provide aims and objectives of the treatment</li> <li>Be able to list treatment plans for the case provided with multiple systems</li> <li>Be able to elaborate on the treatment at a step-by-step level</li> <li>Be able to provide a retention protocol on completion</li> </ul>	SEMINAR FACE TO FACE (1 UNITS)	END COURSE MCQ
5.2	CLASS II DIV 1	Students should know Class II div 1 malocclusion to a comprehensive level.	<ul style="list-style-type: none"> <li>Be able to define a class II div 1 malocclusion and know the statistics of the same</li> <li>Understand the basic statistics in the population with class II div 1 malocclusion</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ

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			<ul style="list-style-type: none"> <li>• Understand various features of a class II div 1 malocclusion</li> <li>• Understand the aetiology of a class II div 1 malocclusion</li> <li>• Be aware of various cephalometric differences in class II div 1 malocclusions</li> <li>• Be able to enumerate parts of a class II div 1 malocclusion</li> <li>• Know the different methods of crowding alleviation in class II div 1 malocclusions</li> <li>• Know the different methods of space closure in class II div 1 malocclusions</li> <li>• Know the various methods of crossbite correction in class II div 1 malocclusions</li> <li>• Understand the importance of age in treatment planning in class II div 1 malocclusions</li> <li>• Be aware of methods of distalisation using removable appliances</li> <li>• Be aware of methods of headgear utilisation in class II div 1 malocclusions</li> <li>• Understand how functional appliances are utilised in class II div 1 malocclusions</li> <li>• Understand how extractions can be utilised in class II div 1 malocclusions</li> <li>• Understand how fixed appliances are used in class II div 2 malocclusions</li> <li>• Be able to develop a comprehensive aligner protocol for class II div 2 correction</li> <li>• Understand the limitations in orthodontic treatment in class II div 1 malocclusions</li> </ul>		
5.3	WIRE WORK - TYPO 1 (018)	Students should be able to understand how alignment is performed with fixed appliances.	<ul style="list-style-type: none"> <li>• Be able to choose the correct wire for the stage</li> <li>• Be able to use NiTi wires correctly and efficiently</li> <li>• Be able to use NiTi wires safely</li> </ul>	PRACTICAL (1 UNITS)	END COURSE MCQ
5.4	CLASS II ALIGNERS	Students should be able to comprehensively correct class II malocclusions using aligners.	<ul style="list-style-type: none"> <li>• Be able to understand the difference between aligners and fixed therapies in class II</li> <li>• Know the importance of the clinical simulation in class II</li> <li>• Be able to develop a concise treatment plan in class II aligner therapies</li> <li>• Know the value of and be able to provide safe IPR in class II aligner therapy</li> <li>• Know the value of and be able to provide sequential distalisation</li> <li>• Understand the methods of working with extraction spaces and the limitations with aligners in class II</li> <li>• Understand the methods of the translation correction and tipping in class III aligner therapy</li> <li>• Understand the importance of the attachments in class II as well as specific cut outs</li> <li>• Be aware of different protocols such as the G6 protocol</li> <li>• Be aware and be able to use elastics in aligners and their biomechanics in class II aligners</li> <li>• Know methods of space closure in aligners including staging</li> <li>• Understand bowing in aligner therapy and understand the issues behind it</li> <li>• Be able to use the FROG protocol and understand its biomechanics</li> <li>• Understand the mandibular advancement procedures and be able to use them</li> <li>• Understand the concepts behind sequential distalisation and be able to apply the same</li> <li>• Be able to understand and develop occlusal or incisal ramps and be able to detect the "slide effect"</li> <li>• Understand the auxiliaries used in all the other options in class II aligner therapy</li> <li>• Know how to correct the Curve of Spee with aligners with multiple methods to accelerate the same</li> <li>• Know how to correct the transverse discrepancy in orthodontics specially in class II</li> <li>• Be able to control anterior torque correction to reduce the overjet with aligners</li> <li>• Know the various effects of a Pearl Necklace Effect and how to utilise for retraction</li> <li>• Be able to understand the different markers on the clinical simulations with different systems</li> <li>• Understand how TADs can be used in aligners</li> <li>• Understand different sectional appliances with aligners in class II</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
5.5	WIRE WORK - TYPO 2 (17x25)	Students should be able to utilise methods on closing space and bite correction in fixed appliances.	<ul style="list-style-type: none"> <li>• Understand the importance of monitoring canine, molar and incisor relations during space closure/opening</li> <li>• Understand and utilise different methods of bite correction during space closure/opening</li> <li>• Use multiple methods of closing/opening space in fixed appliance therapy</li> <li>• Be able to do bite correction and space closure/opening safely</li> </ul>	PRACTICAL (0.5 UNITS)	END COURSE MCQ
5.6	FUNCTIONALS & FIXED FUNCTIONALS	Students should be able to understand and apply to a comprehensive level functional appliances.	<ul style="list-style-type: none"> <li>• Be able to define growth modification</li> <li>• Be aware of the history of growth modification</li> <li>• Be able to understand the method of action of functional appliances</li> <li>• Be able to know the methods of bone formation and form vs function theory as applied clinically</li> <li>• Understand the methods to classify functional appliances</li> <li>• Understand the indications and contra indications for functional appliances</li> <li>• Understand the advantages and disadvantages for functional appliances</li> <li>• Understand the limitations of the same</li> <li>• Be able to perform a correct bite registration</li> <li>• Be able to read super impositions</li> <li>• Understand the importance of choosing the correct appliance and the factors affecting this decision</li> <li>• Be aware of the controversies with early treatment</li> <li>• Understand the various animal studies present in functional appliance therapy and their limitations</li> <li>• Understand the various human studies present in functional appliance therapy and their limitations</li> <li>• Be able to enumerate various functional appliances and understand their method of action</li> <li>• Be able to apply indications and contra indications on various functional appliances</li> <li>• Understand the method of action specifically with a Twin Block</li> <li>• Be able to fabricate and design a Twin Block</li> <li>• Understand the different Twin Block modifications</li> <li>• Be able to develop a transition plan for Twin Block</li> <li>• Understand the retention protocol outlined for functional appliances</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ

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5.7	CLASS II DIV 2 & DEEP BITE	Students should know Class II div 2 and deep bite malocclusions to a comprehensive level.	<ul style="list-style-type: none"> <li>• Be able to define a class II div 2 malocclusion and know the statistics of the same</li> <li>• Understand the basic statistics in the population with class II div 2 malocclusions</li> <li>• Understand various features of a class II div 2 malocclusion</li> <li>• Understand the aetiology of a class II div 2 malocclusion</li> <li>• Be aware of various cephalometric differences in class II div 2 malocclusions</li> <li>• Be able to enumerate parts of a class II div 2 malocclusion</li> <li>• Know the different methods of crowding alleviation in class II div 2 malocclusions</li> <li>• Know the different methods of space closure in class II div 2 malocclusions</li> <li>• Know the various methods of crossbite correction in class II div 2 malocclusions</li> <li>• Understand the importance of age in treatment planning in class II div 2 malocclusions</li> <li>• Be aware of treatments of class II div 2 malocclusions using removable appliances</li> <li>• Be aware of methods of headgear utilisation in class II div 2 malocclusions</li> <li>• Understand how functional appliances are utilised in class II div 2 malocclusions</li> <li>• Understand how extractions can be utilised in class II div 2 malocclusions</li> <li>• Understand how fixed appliances are used in class II div 2 malocclusions</li> <li>• Be able to develop a comprehensive aligner protocol for class II div 2 correction</li> <li>• Understand the limitations in orthodontic treatment in class II div 2 malocclusions</li> <li>• Understand the features of a deep bite malocclusion</li> <li>• Understand the aetiology of deep bites</li> <li>• Understand the prognosis of deep bites and long-term risks</li> <li>• Understand the importance of soft tissue control in deep bites</li> <li>• Understand the importance of skeletal components causing deep bites</li> <li>• Be aware of the methods of correcting deep bites using removable appliances</li> <li>• Be aware of the methods of correcting deep bites using expansion</li> <li>• Be aware of the methods of correcting deep bites using head gear</li> <li>• Be aware of the methods of correcting deep bites using functional appliances</li> <li>• Be aware of the methods of correcting deep bites using fixed appliances</li> <li>• Be aware of the methods of correcting deep bites using TADs</li> <li>• Be aware of the methods of correcting deep bites using aligners as well as the limitations of the same</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
5.8	WIRE WORK - TYPO 3 (SPACE CLOSURE)	Students should be able to utilise methods on closing space and bite correction in fixed appliances.	<ul style="list-style-type: none"> <li>• Understand the importance of monitoring canine, molar and incisor relations during space closure/opening</li> <li>• Understand and utilise different methods of bite correction during space closure/opening</li> <li>• Use multiple methods of closing/opening space in fixed appliance therapy</li> <li>• Be able to do bite correction and space closure/opening safely</li> </ul>	PRACTICAL (0.5 UNITS)	END COURSE MCQ
5.9	DEEP BITE WITH ALIGNERS	Students should be able to develop a clinical simulation for aligners in open bite correction.	<ul style="list-style-type: none"> <li>• Students should know the features and aetiology of deep bites</li> <li>• Understand the differences of relative and true intrusion of anterior teeth</li> <li>• Understand the importance of extrusion of posterior teeth in deep bites</li> <li>• Understand the limits of extrusion and intrusion using aligners and its predictability in deep bites</li> <li>• Be able to use attachments used in deep bite correction for extrusion of posteriors</li> <li>• Be able to use attachments used in deep bite correction for intrusion of anteriors</li> <li>• Understand the importance of retentive attachments in deep bite correction</li> <li>• Understand the importance of overcorrection and hypercorrection in deep bite correction</li> <li>• Understand the value of staging difficult movements in deep bite correction</li> <li>• Be able to utilise torquing options in aligners</li> <li>• Understand what to avoid in deep bite aligner therapies</li> <li>• Understand the benefits of elastics in deep bite correction</li> <li>• Be aware of different modifications of correcting deep bites</li> <li>• Be aware of different methods of retention in deep bite correction</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
5.10D	CLASS II MECHANICS	Students should be able to develop skills in class II correction in aligner and fixed therapies.	<ul style="list-style-type: none"> <li>• Be able to provide a treatment objective list with respect to class II malocclusions</li> <li>• Understand the limitations of the treatment objectives</li> <li>• Understand the main methods of correcting over jets</li> <li>• Know the difference between proclination, tipping and bodily movement</li> <li>• Be aware of specific risks of each of the above</li> <li>• Be aware of the history of protocols used to correct class II malocclusions</li> <li>• Be aware of the Begg approach to orthodontics and its progenitor TipEdge</li> <li>• Understand camouflage techniques in class II correction</li> <li>• Be aware of the advantages and disadvantages of class II camouflage</li> <li>• Understand and utilise methods to procline the lower labial segment</li> <li>• Understand and utilise methods to distalise upper molar segments</li> <li>• Understand and utilise methods to mesialise the lower molar segments</li> <li>• Understand and utilise methods to retract upper labial segments</li> <li>• Understand the importance and ways to control the transverse dimension during treatment and arch coordination</li> <li>• Understand the importance and ways to control the vertical dimension during treatment and overbite control</li> <li>• Be aware of the stability of the lower incisors and the Edge Centroid</li> <li>• Understand comprehensively the use of elastics during all forms of treatment</li> <li>• Know the benefits of sequential distalisation, the indications and contra indications in aligner therapy</li> <li>• Know the controversies with extractions and understand the benefits and disadvantages in class II</li> <li>• Know various extraction protocols used in fixed and aligner therapy</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ

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5.11D	ORTHOGNATHICS C2	Students should have a basic theoretical knowledge of Class II orthognathics.	<ul style="list-style-type: none"> <li>• Know the importance of soft tissue control during class II correction</li> <li>• Be aware of the psychological component of clenching</li> <li>• Understand limitations of dental movements with regards to class II</li> <li>• Understand the importance of timing in orthognathic planning</li> <li>• Be aware of the advantages and disadvantages of class II orthognathic treatment</li> <li>• Be aware of the indications and contraindications of class II orthognathic treatment</li> <li>• Be aware of the conventional orthognathic procedures</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
5.12D	LOW ANGLE CASES	Students should know of and be able to treat low angle cases in orthodontics.	<ul style="list-style-type: none"> <li>• Understand the definition of a low angle case</li> <li>• Understand the features of low angle cases</li> <li>• Understand the aetiology of low angle cases</li> <li>• Be able to enumerate prognosis, and patho-prognosis of low angle cases</li> <li>• Understand the various methods of correct a low angle patient</li> <li>• Be able to appreciate the complexity of retainer control in low angle cases</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
5.13D	HEADGEAR	Students should be able to understand the mechanics and protocols of a Class II headgear device.	<ul style="list-style-type: none"> <li>• Know the value of using extra oral anchorage and traction</li> <li>• Know the specific classification of head gear systems used in class II</li> <li>• Know the parts of a head gear</li> <li>• Be aware of the safety requirements</li> <li>• Understand how to effectively use the headgear in class II</li> <li>• Know the indications and contra indications of head gears in class II</li> <li>• Know the advantages and disadvantages of the same</li> <li>• Understand the various modifications of the headgear</li> <li>• Be aware of how the headgear can assist in aligner cases</li> <li>• Be able to apply the knowledge</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
5.14D	DISTRACTION OSTEOGENESIS	Students should know the basics of how distraction osteogenesis works.	<ul style="list-style-type: none"> <li>• Be able to understand basic bone development</li> <li>• Be able to enumerate the various components of the distraction osteogenesis appliance</li> <li>• Understand the indications and contra indications of using distraction osteogenesis</li> <li>• Know the advantages and disadvantages of the same</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
5.15D	DISTALISERS	Students should be able to understand the mechanics of various distalser appliances.	<ul style="list-style-type: none"> <li>• Understand the mechanics behind class II correction</li> <li>• Understand the various methods of class II correction</li> <li>• Be aware of the history of class II correction</li> <li>• Consider the benefits of distalisation vs extraction</li> <li>• Be able to classify distalisers</li> <li>• Know the benefits and disadvantages of removable and fixed distalisers</li> <li>• Understand the mechanics behind skeletal based distalisers</li> <li>• Understand the mechanics behind soft tissue based distalisers</li> <li>• Understand the mechanics behind dental based distalisers</li> <li>• Know the modifications of the same</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
5.16D	C2 CAMOUFLAGE	Students should know the benefits, advantages and methods of correcting class II cases with a camouflage method.	<ul style="list-style-type: none"> <li>• Be able to understand the difference between comprehensive and camouflage treatment in class II cases</li> <li>• Be able to understand the basic mechanics in camouflage treatment in class II cases</li> <li>• Know the different methods of camouflaging class II cases</li> <li>• Be able to use aligners to camouflage class II cases</li> <li>• Be aware of the limitations of camouflaging class II cases</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
5.17D	SECTIONAL MECHANICS C2	Students should be able to provide sectional fixed orthodontics to enhance their aligner therapies in Class II malocclusions.	<ul style="list-style-type: none"> <li>• Know the different indications for sectional appliances in Class I Malocclusions</li> <li>• Be aware of the correct transition period with aligner therapies in Class I Malocclusions</li> <li>• Be able to review advantages and disadvantages of sectional appliances in Class I Malocclusions</li> <li>• Be able to monitor sectional appliances and ensure safety in Class I Malocclusions</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
<b>DAY 6</b>	<b>TOPIC</b>	<b>AIMS</b>	<b>OBJECTIVES</b>	<b>METHOD OF TEACHING</b>	<b>METHOD OF ASSESSMENT</b>
6.1	CASE	Students should be able to examine, diagnose and treatment plan the patient as well as ascertain normal and abnormal parameters from the records provided	<ul style="list-style-type: none"> <li>• Be able to correctly examine the case provided</li> <li>• Be able to correctly diagnose the orthodontic malocclusion using the records provided</li> <li>• Be able to provide a comprehensive problem list</li> <li>• Be able to provide aims and objectives of the treatment</li> <li>• Be able to list treatment plans for the case provided with multiple systems</li> <li>• Be able to elaborate on the treatment at a step-by-step level</li> <li>• Be able to provide a retention protocol on completion</li> </ul>	SEMINAR FACE TO FACE (1 UNITS)	END COURSE MCQ
6.2	CLASS III MALOCCLUSION	Students should know Class III malocclusions to a comprehensive level.	<ul style="list-style-type: none"> <li>• Be able to define a class III malocclusion and know the statistics of the same</li> <li>• Appreciate the genetic tendency and history behind the class III malocclusion</li> <li>• Understand the basic statistics in the population with class III malocclusions</li> <li>• Understand various features of a class III malocclusion</li> <li>• Understand the aetiology of a class III malocclusion</li> <li>• Be aware of various cephalometric differences in class III malocclusions</li> <li>• Be able to enumerate parts of a class III malocclusion</li> <li>• Know the different methods of crowding alleviation in class III malocclusions</li> <li>• Know the different methods of space closure in class III malocclusions</li> <li>• Know the various methods of crossbite correction in class III malocclusions</li> <li>• Understand the importance of impactions in class III malocclusions</li> <li>• Understand the importance of transverse correction in class III malocclusions</li> <li>• Understand the importance of age in treatment planning in class III malocclusions</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ

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			<ul style="list-style-type: none"> <li>• Be aware of treatments of class III malocclusions using removable appliances</li> <li>• Be aware of methods of headgear utilisation in class III malocclusions</li> <li>• Understand how functional appliances are utilised in class III malocclusions</li> <li>• Understand how extractions can be utilised in class III malocclusions</li> <li>• Understand how fixed appliances are used in class III malocclusions</li> <li>• Be able to develop a comprehensive aligner protocol for class III correction</li> <li>• Understand the limitations in orthodontic treatment in class III malocclusions</li> </ul>		
6.3	WIRE WORK - TYPO 1 (018)	Students should be able to understand how alignment is performed with fixed appliances	<ul style="list-style-type: none"> <li>• Be able to choose the correct wire for the stage</li> <li>• Be able to use NITI wires correctly and efficiently</li> <li>• Be able to use NITI wires safely</li> </ul>	PRACTICAL (1 UNITS)	END COURSE MCQ
6.4	CLASS III ALIGNERS		<ul style="list-style-type: none"> <li>• Be able to understand the difference between aligners and fixed therapies in class III</li> <li>• Know the importance of the clinical simulation in class III</li> <li>• Be able to develop a concise treatment plan in class III aligner therapies</li> <li>• Know the value of and be able to provide safe IPR in class III aligner therapy</li> <li>• Know the value of and be able to provide sequential mesialisation</li> <li>• Understand the methods of working with extraction spaces and the limitations with aligners in class III</li> <li>• Understand the methods of the translation correction and tipping in class III aligner therapy</li> <li>• Understand the importance of the attachments in class III as well as specific cut outs</li> <li>• Be aware of different protocols such consideration of the profile</li> <li>• Be aware and be able to use elastics in aligners and their biomechanics in class III aligner therapy</li> <li>• Know methods of space closure in aligners including staging</li> <li>• Understand the mandibular restriction procedures and be able to use them</li> <li>• Understand the concepts behind sequential mesialisation and be able to apply the same</li> <li>• Understand the auxiliaries used specifically in class III</li> <li>• Know how to control the Curve of Spee with aligners</li> <li>• Know how to correct the transverse discrepancy in orthodontics specially in class III</li> <li>• Be able to control anterior torque correction to ensure an overjet in class III aligner therapy</li> <li>• Know the various effects of a Pearl Necklace Effect and how to prevent its expression</li> <li>• Be able to understand the different markers on the clinical simulations with different systems in class III</li> <li>• Understand how TADs can be used in aligners in class III</li> <li>• Understand different sectional appliances with aligners in class III</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
6.5	WIRE WORK - TYPO 2 (17X25)	Students should be able to understand how alignment is performed with fixed appliances.	<ul style="list-style-type: none"> <li>• Be able to choose the correct wire for the stage</li> <li>• Be able to use NITI wires correctly and efficiently</li> <li>• Be able to use NITI wires safely</li> </ul>	PRACTICAL (0.5 UNITS)	END COURSE MCQ
6.6	OPEN BITE		<ul style="list-style-type: none"> <li>• Be able to define an open bite malocclusion and know the statistics of the same</li> <li>• Understand the basic statistics in the population with open bite malocclusions</li> <li>• Understand various features of an open bite malocclusion</li> <li>• Understand the aetiology of an open bite malocclusion</li> <li>• Be aware of various cephalometric differences in open bite malocclusions</li> <li>• Be able to enumerate parts of an open bite malocclusion</li> <li>• Know the different methods of crowding alleviation in open bite malocclusions</li> <li>• Know the different methods of space closure in open bite malocclusions</li> <li>• Know the various methods of crossbite correction in open bite malocclusions</li> <li>• Understand the importance of age in treatment planning in open bite malocclusions</li> <li>• Be aware of treatments of open bite malocclusions using removable appliances</li> <li>• Be aware of methods of headgear utilisation in open bite malocclusions</li> <li>• Understand how functional appliances are utilised in open bite malocclusions</li> <li>• Understand how extractions can be utilised in open bite malocclusions</li> <li>• Be aware of the methods of correcting open bites using fixed appliances</li> <li>• Be aware of the methods of correcting open bites using aligners as well as the limitations of the same</li> <li>• Understand the limitations in orthodontic treatment in open bite malocclusions</li> <li>• Understand the prognosis of open bites and long-term risks</li> <li>• Understand the importance of soft tissue control in open bites as well as habit cessation</li> <li>• Understand the importance of skeletal components causing open bites</li> <li>• Be aware of the methods of correcting open bites using TADs</li> <li>• Understand the importance of orthognathic surgery in open bite control and ways to refer</li> <li>• Be able to develop a retention protocol for open bites</li> </ul>	FACE TO FACE LECTURE (0.5 UNITS)	END COURSE MCQ
6.7	OPEN BITE WITH ALIGNERS	Students should be able to develop a clinical simulation for aligners in open bite correction.	<ul style="list-style-type: none"> <li>• Students should know the features and aetiology of open bites</li> <li>• Understand the differences of relative and true extrusion of anterior teeth</li> <li>• Understand the importance of intrusion of posterior teeth in open bites</li> <li>• Understand the limits of extrusion and intrusion using aligners and its predictability</li> <li>• Be able to use attachments used in open bite correction for intrusion of posteriors</li> <li>• Be able to use attachments used in open bite correction for extrusion of anteriors</li> <li>• Understand the importance of retentive attachments in open bite correction</li> <li>• Understand the importance of overcorrection and hypercorrection in open bite correction</li> <li>• Understand the value of staging difficult movements in open bite correction</li> <li>• Understand what to avoid in open bite aligner therapies</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ

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			<ul style="list-style-type: none"> <li>Understand the benefits of elastics in open bite correction</li> <li>Be aware of different modifications of correcting open bites</li> <li>Be aware of different methods of retention in open bite correction</li> </ul>		
6.8	WIRE WORK - TYPO 3 (SPACE CLOSURE)	Students should be able to utilise methods on closing space and bite correction in fixed appliances.	<ul style="list-style-type: none"> <li>Understand the importance of monitoring canine, molar and incisor relations during space closure/opening</li> <li>Understand and utilise different methods of bite correction during space closure/opening</li> <li>Use multiple methods of closing/opening space in fixed appliance therapy</li> <li>Be able to do bite correction and space closure/opening safely</li> </ul>	PRACTICAL (0.5 UNITS)	END COURSE MCQ
6.9	ALIGNER FINISHING & DETAILING	Students should be able to plan and execute the terminal end stages of aligner orthodontics.	<ul style="list-style-type: none"> <li>Be able to define finishing and detailing</li> <li>Understand comprehensively the 6 keys of occlusion</li> <li>Understand the rationale behind finishing and detailing</li> <li>Understand the intra and extra oral methods of finishing</li> <li>Understand the radiological finishing components</li> <li>Understand the functional objectives in finishing</li> <li>Understand and control the benefits of tight contacts and no rotations</li> <li>Understand and control the benefits of root parallelism</li> <li>Understand and control the curves of Spee and Monson</li> <li>Be able to correct the overjet and overbite</li> <li>Methods of enhancing the anterior aesthetics</li> <li>Understand the importance of smile aesthetics</li> <li>Be able to adapt to unique finishing situations</li> <li>Be able to prepare for implant sites</li> <li>Understand the benefit of settling</li> <li>Understand and adapt to different final stages of aligners</li> <li>Be able to develop a final stage protocol from case to case</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
6.10D	CLASS III MECHANICS	Students should be able to develop skills in class III correction in aligner and fixed therapies.	<ul style="list-style-type: none"> <li>Be able to provide a treatment objective list with respect to class III malocclusions</li> <li>Understand the limitations of the treatment objectives</li> <li>Understand the main methods of correcting reverse over jets</li> <li>Know the difference between retroclination, tipping and bodily movement</li> <li>Be aware of specific risks of each of the above</li> <li>Be aware of the history of protocols used to correct class III malocclusions</li> <li>Be aware of the methods of using IPR and lower incisor extraction for correction</li> <li>Understand camouflage techniques in class III correction</li> <li>Be aware of the advantages and disadvantages of class III camouflage</li> <li>Understand and utilise methods to retrocline the lower labial segment</li> <li>Understand and utilise methods to mesialise upper molar segments</li> <li>Understand and utilise methods to distalise the lower molar segments</li> <li>Understand and utilise methods to protract upper labial segments</li> <li>Understand the importance and ways to control the transverse dimension during treatment and arch coordination</li> <li>Understand the importance and ways to control the vertical dimension during treatment and overbite control</li> <li>Be aware of the poor stability of the anteriors after camouflage with class III</li> <li>Understand comprehensively the use of elastics during all forms of treatment in class III correction</li> <li>Know the benefits of sequential mesialisation the indications and contra indications in aligner therapy</li> <li>Know the controversies with extractions and understand the benefits and disadvantages in class III</li> <li>Know the controversies with the chin cup and TMD after reverse functional therapy</li> <li>Know various extraction protocols used in fixed and aligner therapy in class III</li> <li>Know the importance of soft tissue control during class III correction</li> <li>Be aware of the importance of tongue control</li> <li>Be aware of the importance of other malocclusions with class III such as impactions/hypodontia</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
6.11D	TRANSVERSE DISCREPANCIES	Students should know aetiology, diagnosis and treatment of transverse discrepancies to a high degree.	<ul style="list-style-type: none"> <li>Understand the different factors causing transverse discrepancies</li> <li>Know all the aetiology of transverse discrepancies</li> <li>Be aware of the normal transverse development with growth</li> <li>Be able to classify transverse discrepancies</li> <li>Understand diagnosis of transverse discrepancies</li> <li>Know the value of the PA ceph</li> <li>Be able to understand the different removable appliances for transverse correction</li> <li>Be able to understand the different functional appliances for transverse correction</li> <li>Be able to understand the different fixed appliances for transverse correction</li> <li>Know how to use and adjust helix expanders</li> <li>Know how to use and adjust RME expanders</li> <li>Know how to expand/arch develop with aligners</li> <li>Be aware of TAD anchored expanders</li> <li>Be aware of surgical means of expansion</li> <li>Know of the issues with retention and the methods to prevent relapse</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
6.12D	ASYMMETRIES	Students should know how to diagnose and treat asymmetries.	<ul style="list-style-type: none"> <li>Know the aetiology of asymmetries</li> <li>Understand the classifications of asymmetries</li> <li>Understand the various limitations of the same</li> <li>Be able to classify various treatment options in asymmetries</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ

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			<ul style="list-style-type: none"> <li>• Know the methods to correct asymmetries skeletally</li> <li>• Know and be able to use methods to correct asymmetries dentally</li> <li>• Be able to correct asymmetries with fixed appliances</li> <li>• Be able to correct asymmetries with aligners</li> <li>• Be able to use modified techniques of correcting the asymmetries</li> </ul>		
6.13D	ORTHOGNATHICS C3	Students should have a basic theoretical knowledge of class III orthognathics.	<ul style="list-style-type: none"> <li>• Understand limitations of dental movements with regards to class III</li> <li>• Understand the importance of timing in orthognathic planning</li> <li>• Be aware of the advantages and disadvantages of class III orthognathic treatment</li> <li>• Be aware of the indications and contraindications of class III orthognathic treatment</li> <li>• Be aware of the conventional orthognathic procedures</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
6.14D	HIGH ANGLE CASES	Students should know of and be able to treat high angle cases in orthodontics.	<ul style="list-style-type: none"> <li>• Understand the definition of a high angle case</li> <li>• Understand the features of high angle cases</li> <li>• Understand the aetiology of high angle cases</li> <li>• Be able to enumerate prognosis, and patho-prognosis of high angle cases</li> <li>• Understand the various methods of correct a high angle patient</li> <li>• Be able to appreciate the complexity of retainer control in high angle cases</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
6.15D	PROTRACTION HG	Students should have a basic theoretical knowledge of protraction headgears.	<ul style="list-style-type: none"> <li>• Be able to classify the protraction headgear systems</li> <li>• Know the various benefits and disadvantages of the protraction headgear systems</li> <li>• Be able to provide indications and contraindications of protraction headgear systems</li> <li>• Know the biomechanics of protraction headgear systems</li> <li>• Understand the various components of the protraction headgear system</li> <li>• Know the importance of timing with the protraction headgear system</li> <li>• Be aware of the modifications of the protraction headgear system</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
6.16D	C3 CAMOUFLAGE	Students should know the benefits, advantages and methods of correcting class III cases with a camouflage method.	<ul style="list-style-type: none"> <li>• Be able to understand the difference between comprehensive and camouflage treatment in class III cases</li> <li>• Be able to understand the basic mechanics in camouflage treatment in class III cases</li> <li>• Know the different methods of camouflaging class III cases</li> <li>• Be able to use aligners to camouflage class III cases</li> <li>• Be aware of the limitations of camouflaging class III cases</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
6.17D	SECTIONAL MECHANICS C3	Students should be able to provide sectional fixed orthodontics to enhance their aligner therapies in class III malocclusions.	<ul style="list-style-type: none"> <li>• Know the different indications for sectional appliances in class III malocclusions</li> <li>• Be aware of the correct transition period with aligner therapies in class III malocclusions</li> <li>• Be able to review advantages and disadvantages of sectional appliances in class III malocclusions</li> <li>• Be able to monitor sectional appliances and ensure safety in class III malocclusions</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
DAY 7	TOPIC	AIMS	OBJECTIVES	METHOD OF TEACHING	METHOD OF ASSESSMENT
7.1	CASE	Students should be able to examine, diagnose and treatment plan the patient as well as ascertain normal and abnormal parameters from the records provided.	<ul style="list-style-type: none"> <li>• Be able to correctly examine the case provided</li> <li>• Be able to correctly diagnose the orthodontic malocclusion using the records provided</li> <li>• Be able to provide a comprehensive problem list</li> <li>• Be able to provide aims and objectives of the treatment</li> <li>• Be able to list treatment plans for the case provided with multiple systems</li> <li>• Be able to elaborate on the treatment at a step-by-step level</li> <li>• Be able to provide a retention protocol on completion</li> </ul>	SEMINAR FACE TO FACE (1 UNITS)	END COURSE MCQ
7.2	IPR	Students should understand basic IPR as well as the methods to perform as such safely.	<ul style="list-style-type: none"> <li>• Know the relevance of the inter proximal reduction</li> <li>• Be able to decide the cases and positions of where IPR should be done</li> <li>• Understand the destructive ability of IPR</li> <li>• Know when to and when not to do IPR</li> <li>• Be able to use various methods of IPR as well as safety measures of the same</li> <li>• Be able to consider alternative options in using IPR</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
7.3	SLB	Students should be aware of self-ligating systems and their impact in orthodontics.	<ul style="list-style-type: none"> <li>• Understand the ideal ligating system</li> <li>• Be aware of the basic history behind the SLB</li> <li>• Be aware of problems with the module ligating system/conventional ligation system</li> <li>• Differentiate between active and passive SLB</li> <li>• Understand advantages and disadvantages with the self-ligating system</li> <li>• Understand indications and contra indications of the self-ligating system</li> <li>• Be aware of the different systems available</li> <li>• Know the different methods of using elastics in SLB</li> <li>• Be aware of the controversies in SLB</li> <li>• Understand the limitations of SLB</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
7.4	DAMON	Students should be able to understand and outline the Damon Strategy to a basic level.	<ul style="list-style-type: none"> <li>• Know the basic history of the self-ligating bracket</li> <li>• Know the advantages and disadvantages with the self-ligating bracket</li> <li>• Understand the differences between active and passive versions</li> <li>• Be aware of the basic history of the Damon system</li> <li>• Be aware of the basic Damon Philosophy</li> <li>• Understand the various methods used in Damon Protocols for various malocclusions</li> <li>• Know the advantages and disadvantages of the same system</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
7.5	IMPACTIONS	Students should be able to diagnose and understand the imaging behind impactions of multiple teeth.	<ul style="list-style-type: none"> <li>• Be able to define impaction and ectopic</li> <li>• Know the basic eruption theories</li> <li>• Be aware of different eruption impedances</li> <li>• Understand the aetiology of impacted teeth including systemic and local factors</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ

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			<ul style="list-style-type: none"> <li>Understand the importance of a comprehensive diagnosis of impactions</li> <li>Classify impacted teeth</li> <li>Understand methods of radiological review including parallax</li> <li>Understand the methods of reading a CBCT</li> <li>Know the diagnosis, aetiology, treatment options and prognosis of impacted incisors</li> <li>Know the diagnosis, aetiology, treatment options and prognosis of impacted canines</li> <li>Know the diagnosis, aetiology, treatment options and prognosis of impacted premolars</li> <li>Know the diagnosis, aetiology, treatment options and prognosis of impacted molars</li> <li>Be able to retain impacted teeth</li> <li>Know the differences between open and closed exposure</li> <li>Know the basics of auto transplantation</li> <li>Understand the pathophysiology and diagnosis of ankylosis</li> </ul>		
7.6	FINISHING & DETAILING	Students should know of various wire bending methods to attain a good finish using fixed appliances.	<ul style="list-style-type: none"> <li>Be aware and control of 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> order bends</li> <li>Understand the benefits of repositioning</li> <li>Be able to understand the mechanics behind finishing bends</li> <li>Know the various methods of correcting vertical extrusion/intrusion problems</li> <li>Know the various methods of correcting tip errors</li> <li>Know the various methods of correcting in/out errors</li> <li>Know the various methods of enhancing offsets and rotations</li> <li>Understand the different instruments required for the above</li> </ul>	FACE TO FACE LECTURE (0.5 UNITS)	END COURSE MCQ
7.7	WIRE BENDING PRACTICAL	Students should be able to perform basic finishing bends in fixed appliances.	<ul style="list-style-type: none"> <li>Be able to perform an intrusion bend in round steel wires</li> <li>Be able to perform an extrusion bend in round steel wires</li> <li>Be able to develop a canine offset and a molar offset in a round steel wire</li> <li>Be able to perform a mesial tip and a distal tip bend on rectangular steel wires</li> <li>Be able to perform V bend and understand the indications on a round wire</li> <li>Be able to perform torquing bends on rectangular steel wires</li> </ul>	FACE TO FACE LECTURE AND PRACTICAL (0.75 UNITS)	END COURSE MCQ
7.8	CARRIERE	Students should be relatively able to consider a Carriere appliance in practice including understanding its mechanics and protocols.	<ul style="list-style-type: none"> <li>Be able to elaborate the need for distalisation in class II</li> <li>Understand the various methods of distalisation of molars</li> <li>Be aware of the basic history behind the Carriere motion appliance</li> <li>Understand the method of action of the system</li> <li>Be aware of indications and contra indications of the Carriere motion appliance</li> <li>Know the benefits and disadvantages of the Carriere</li> <li>Know the components of the Carriere</li> <li>Be able to monitor the movements of a Carriere appliance</li> <li>Consider the options regarding any modifications</li> <li>Know how to develop any transition between Carriere and fixed/aligners</li> <li>How to use the Carriere prior to aligners as a step to control molar positions</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
7.9D	SUPERNUMERARIES	Students should be able to know the diagnosis, treatment and prognosis of supernumeraries in dentistry.	<ul style="list-style-type: none"> <li>Understand the normal and abnormal complement of dentition at various ages</li> <li>Be able to define supernumeraries</li> <li>Know the prevalence and statistics of the same</li> <li>Be able to classify supernumeraries</li> <li>Know the difference of the various types</li> <li>Know the characteristics of conical types</li> <li>Know the characteristics of tuberculate types</li> <li>Know the characteristics of supplemental types</li> <li>Know the characteristics of odontomes</li> <li>Be able to classify odontomes</li> <li>Be aware of the theories of aetiology</li> <li>Understand the pathophysiology of supernumeraries</li> <li>Know the prognosis with respect to time</li> <li>Be able to formulate treatment options for patients with supernumeraries</li> <li>Know the methods to diagnose supernumeraries and the benefit of imaging</li> <li>Understand the risks and benefits, indications and contra indications of various treatment modalities</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
7.10D	PFE, UNERUPTED INC & TRANSPOSITIONS	Students should know the diagnosis, treatment and prognosis of primary failure of eruption, unerupted teeth and transpositions.	<ul style="list-style-type: none"> <li>Be able to define PFE</li> <li>Know the pathophysiology of PFE</li> <li>Be able to identify PFE</li> <li>Know the risks of attempting treating PFE</li> <li>Be aware of different treatment methods in PFE and importance of referral</li> <li>Be able to identify unerupted incisors</li> <li>Know the various methods to diagnose unerupted incisors</li> <li>Know the different treatment options for unerupted incisors</li> <li>Know the prognosis of various treatments including no treatment</li> <li>Be able to define transpositions</li> <li>Be able to classify transpositions</li> <li>Know the prevalence and statistics of the same</li> <li>Understand the risks of treatment and when to consider treatment in transpositions</li> <li>Be aware of the prognosis of transpositions</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ

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7.11D	<b>GUIDELINES</b>	Students should know the different contemporary guidelines in orthodontics and the limitations of the same.	<ul style="list-style-type: none"> <li>• Appreciate the benefits of guidelines in orthodontics</li> <li>• Understand the evolutionary change of these guidelines</li> <li>• Understand the current guidelines in orthodontics as per the NICE, AAO, BOS, RCS, Cochrane and others</li> <li>• Be aware of the dynamism of guidelines in the literature</li> <li>• Understand the limitations of the guidelines in orthodontics</li> <li>• Be able to adapt to clinical situations</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
7.12D	<b>ORTHODONTIC EMERGENCIES</b>	Students should be able to handle different orthodontic emergencies.	<ul style="list-style-type: none"> <li>• Know the various emergencies present in orthodontics</li> <li>• Be able to handle discomfort in orthodontics</li> <li>• Be able to give advice on bracket/tube/band breakages</li> <li>• Be able to give advice on sharp wires/appliances/aligners etc</li> <li>• Be able to give advice on mouth ulcers due to fixed and removable appliance therapy</li> <li>• Be able to handle patients which have lost elastics/aligners/appliances</li> <li>• Understand the importance of diet control to prevent breakages</li> <li>• Know the various allergens used in orthodontics and their alternatives</li> <li>• Understand and alleviate other emergencies in orthodontics</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
7.13D	<b>INDICES</b>	Students should be able to understand, scrutinise and utilise the basic indices used in orthodontics.	<ul style="list-style-type: none"> <li>• Be able to use the IOTN</li> <li>• Be able to use the PAR index</li> <li>• Understand and be able to use Little's index</li> <li>• Be able to use the WHO FDI index for malocclusions</li> <li>• Be able to use the ICON</li> <li>• Understand the other various indices present in orthodontics</li> <li>• Know the indications and contra indications of the same</li> <li>• Know the advantages and disadvantages of the same</li> <li>• Be able to scrutinise the above and know their limitations</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
<b>DAY 8</b>	<b>TOPIC</b>	<b>AIMS</b>	<b>OBJECTIVES</b>	<b>METHOD OF TEACHING</b>	<b>METHOD OF ASSESSMENT</b>
8.1	CASE	Students should be able to examine, diagnose and treatment plan the patient as well as ascertain normal and abnormal parameters from the records provided	<ul style="list-style-type: none"> <li>• Be able to correctly examine the case provided</li> <li>• Be able to correctly diagnose the orthodontic malocclusion using the records provided</li> <li>• Be able to provide a comprehensive problem list</li> <li>• Be able to provide aims and objectives of the treatment</li> <li>• Be able to list treatment plans for the case provided with multiple systems</li> <li>• Be able to elaborate on the treatment at a step-by-step level</li> <li>• Be able to provide a retention protocol on completion</li> </ul>	SEMINAR FACE TO FACE (1 UNITS)	END COURSE MCQ
8.2	HYPODONTIA & ORTHO RESTORATIVE	Students should be able to diagnose and treatment plan hypodontia cases and those requiring a joint ortho-restorative approach.	<ul style="list-style-type: none"> <li>• Be able to define hypodontia</li> <li>• Understand the various definitions of missing teeth</li> <li>• Know the prevalence and statistics of the same</li> <li>• Know which teeth are more common than others</li> <li>• Be aware of syndromes and other medical conditions with hypodontia</li> <li>• Be aware of genetic traits and genes associated with hypodontia</li> <li>• Be able to diagnose hypodontia to a high level</li> <li>• Understand the use of various imaging methods in hypodontia</li> <li>• Be able to enumerate different treatment plans to deal with hypodontia in various conditions</li> <li>• Understand the factors affecting the decision above</li> <li>• Know the advantages and disadvantages of various treatment options in opening or closing spaces</li> <li>• Know how to mask teeth to camouflage their appearance</li> <li>• Understand the aims and objectives of ortho restorative treatment</li> <li>• Understand the value of joint clinics, teamwork and referring as well as communication</li> <li>• Be able to relay information to the patient in terms of keeping it realistic</li> <li>• Be able to classify factors effecting ortho-restorative treatment</li> <li>• Know to a comprehensive level diagnosis and treatment planning of missing lateral incisors</li> <li>• Know to a comprehensive level diagnosis and treatment planning of peg laterals</li> <li>• Know to a comprehensive level diagnosis and treatment planning of missing lower premolars</li> <li>• Know to a comprehensive level diagnosis and treatment planning of impacted canines</li> <li>• Understand the Boltons analysis</li> <li>• How to use orthodontics to move teeth to mask anatomy, shape and size etc</li> <li>• Be aware of implant timing</li> <li>• Understand spacing requirements in implants and orthodontics</li> <li>• Understand how to transition treatment to implant teams</li> <li>• Understand options with regards to retainers during transition in hypodontia</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
8.3	PREDEBOND & DEBOND	Students should be able to plan and execute a terminal orthodontic protocol.	<ul style="list-style-type: none"> <li>• Understand the benefit of the pre debond check</li> <li>• Understand the important aspects of the pre debond check</li> <li>• How to approach the debond plan on the day psychologically</li> <li>• Know the setup required for a fixed debond as well as an aligner debond</li> <li>• Know how to remove brackets and bands</li> <li>• Know how to move attachments and buttons</li> <li>• Know the benefits of high and slow speed handpieces and the burs that are needed</li> <li>• Understand the value of the micro etcher and the benefits/disadvantages of the same</li> <li>• Understand the basic methods of fixed retainer placement</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ

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			<ul style="list-style-type: none"> <li>• Know the different materials used</li> <li>• Understand the most important materials used in retainers</li> <li>• Be aware of the importance of records at the end of treatment</li> </ul>		
8.4	STABILITY & RELAPSE	Students should be able to understand stability and relapse as well as methods to reduce relapse.	<ul style="list-style-type: none"> <li>• Understand the definition of stability, relapse and retention</li> <li>• Understand the various classifications of relapse</li> <li>• Be able to develop a concise and planned retention plan</li> <li>• Know of the importance of the zone of equilibrium</li> <li>• Be able to know differences between relapse and normal changes</li> <li>• Know the importance of stabilising the lower arch</li> <li>• Know the arguments for using premolar and other extractions in stability</li> <li>• Understand the importance of controlling expansion loss</li> <li>• Be able to develop a plan and utilise different methods to control expansion</li> <li>• Understand the importance of controlling spacing relapse</li> <li>• Be aware of the methods of retaining posterior and anterior space</li> <li>• Understand Little's studies on irregularities and the index of the same</li> <li>• Be aware of and control the arch form in stability control</li> <li>• Be aware of and control the inter canine and molar width in stability control</li> <li>• Be aware of and control the inter incisal angle and the edge centroid</li> <li>• Be aware of various soft tissue and periodontal factors in controlling stability</li> <li>• Know of CSF only and the benefits and disadvantages</li> <li>• Be aware of the impact of Bolton's discrepancy on stability</li> <li>• Be aware of the shape of teeth as well as position of contact points and their effect on stability</li> <li>• Know the importance of root position in stability</li> <li>• Know of the benefits of good occlusion in relapse prevention</li> <li>• Be aware of the effect of growth on individuals after orthodontics</li> <li>• Know that stability is not universal and constant change is probable</li> <li>• Be aware that orthognathic cases can in many ways relapse</li> <li>• Understand the concept of the 3<sup>rd</sup> molars causing relapse</li> <li>• Be aware of the malocclusions which cause the most relapse</li> <li>• Understand the psychological components of maintaining the result</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
8.5	RETENTION	Students should understand various methods of retainer fabrication and when to use different retainers.	<ul style="list-style-type: none"> <li>• Know the definition of retainers and retention</li> <li>• Know how to plan retention for various malocclusions</li> <li>• Be able to consent for retention prior to treatment</li> <li>• Which malocclusions require extra retention</li> <li>• Understand and develop adjunctive procedures for retention</li> <li>• Be able to classify retainers</li> <li>• Know the benefits and disadvantages of fixed and permanent retention</li> <li>• Know the benefits of tooth and tissue-borne retainer</li> <li>• Understand to a high degree the Hawleys retainer including advantages and disadvantages</li> <li>• Know various modifications of the same as well as the Begg retainers</li> <li>• Understand to a high degree the Essix retainer including advantages and disadvantages</li> <li>• Be able to adapt various retainer protocols together</li> <li>• Know the indications and contra indications for a fixed retainer</li> <li>• Know the materials used in fixed retainer placement</li> <li>• Be aware of lab and clinic-based versions.</li> <li>• Understand a history of the fixed retainer and modifications of the same</li> <li>• Understand and ensure the laxity of the retainer and the importance of passive bonding</li> <li>• Be aware of the contentious topics regarding the failure rate of fixed retainers</li> <li>• Appreciate the technique sensitive nature of fixed retainers</li> <li>• Know various techniques of fixed retainer placement</li> <li>• Know of various retainer protocols in terms of time and wear</li> <li>• Understand comprehensively the Cochrane reviews on retainers</li> <li>• Appreciate the limitations of retainers in stability control after orthodontics</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
8.6	FIXED RETAINER METHODS PRACTICAL	Students should be able to fit a simple fixed permanent retainer.	<ul style="list-style-type: none"> <li>• Be able to plan a fixed retainer placement</li> <li>• Understand the equipment required for fixed retainer placement</li> <li>• Be able to isolate, etch and bond the retainer area</li> <li>• Understand the one floss retainer technique</li> <li>• Be able to control the position of the fixed retainer</li> <li>• Know how to deal with modifications of the retainer placement</li> <li>• Understand the value of the removable retainer</li> <li>• Know limitations of the fixed retainer</li> <li>• Understand the oral hygiene concerns of the fixed retainer</li> </ul>	FACE TO FACE LECTURE AND PRACTICAL (0.5 UNITS)	END COURSE MCQ
8.7	SLEEP	Students should understand the implications of orthodontics and sleep.	<ul style="list-style-type: none"> <li>• Know the basics of sleep physiology</li> <li>• Understand the development of a normal night of sleep</li> <li>• Be aware of the pathophysiology of snoring and sleep apnoea</li> <li>• Be aware of the indices used in sleep apnoea</li> <li>• Know the benefits of referral to a sleep centre in sleep apnoea</li> <li>• Know the benefits of referral to a physician in sleep apnoea</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ

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			<ul style="list-style-type: none"> <li>Understand the benefits and limitations of the dentist in sleep apnoea</li> <li>Know the devices possible in mandibular advancement for treatment of the same</li> <li>Be aware of the orthodontic implications of the MAD</li> </ul>		
8.8	TADS OVERVIEW & MECHANICS PRACTICAL	Students should have a basic overview of using TADs, including their indications and contra indications and be able to place a TAD in various mechanical situations.	<ul style="list-style-type: none"> <li>Understand the definition of osseointegration and why it is not required in TADs</li> <li>Know the difference between bio tolerant, inert and active</li> <li>Know other names for TADs</li> <li>Understand the rationale of TADs and why they are so helpful</li> <li>Understand the importance of immediate loading</li> <li>Be aware of the basic history of the TAD</li> <li>Know the various parts of a TAD and appreciate the various heads</li> <li>Understand the basic classification of implants</li> <li>Be able to list indications and contra indications in orthodontics</li> <li>Know the placement and positioning of TADs for various activities with or without using a jig</li> <li>Understand the step-by-step process for TAD placement</li> <li>Be able to list the equipment needed for the same</li> <li>Understand how to place TADs for molar intrusion, up righting, AOB control, gummy smile control, space closure, retraction, distalisation and more.</li> <li>Be able to appreciate the high rate of loss with regards to TADs</li> <li>Know the limitations of TADs</li> <li>Be able to understand basic trouble shooting with TADs</li> </ul>	FACE TO FACE LECTURE AND PRACTICAL (1 UNITS)	N END COURSE MCQ
8.9	TROUBLESHOOTING & IATROGENICS	Students should be aware of adverse effects of orthodontics caused by themselves as well as situations where the treatment is not going as hoped.	<ul style="list-style-type: none"> <li>Understand that the most important aspect of medicine and dentistry is 'first do no harm'</li> <li>Be able to enumerate risks normally present in orthodontics</li> <li>Know the diagnosis, pathophysiology, treatment and prognosis of decalcification and how to prevent the same</li> <li>Know the diagnosis, pathophysiology, treatment and prognosis of enamel trauma and how to prevent the same</li> <li>Know the diagnosis, pathophysiology, treatment and prognosis of root resorption and how to prevent the same</li> <li>Know risk factors of root resorption and how to avoid exacerbation</li> <li>Know the diagnosis, pathophysiology, treatment and prognosis of pulpal damage and how to prevent the same</li> <li>Know the diagnosis, pathophysiology, treatment and prognosis of periodontal disease and how to prevent the same</li> <li>Know the diagnosis, pathophysiology, treatment and prognosis of recession, fenestration or dehiscence and how to avoid the same along with alveolar bone loss, thinning or necking</li> <li>Know the diagnosis, pathophysiology, treatment and prognosis of mucosal trauma and how to prevent the same</li> <li>Know the diagnosis, pathophysiology, treatment and prognosis of allergic reactions to materials in orthodontics</li> <li>Know the alternatives of the various materials used in aligner and fixed therapies</li> <li>Know the diagnosis, pathophysiology, treatment and prognosis of TMD and how to prevent the same</li> <li>Know the diagnosis, pathophysiology, treatment and prognosis of headgear trauma and how to avoid the same</li> <li>Be aware of poor treatment, transfer cases and injudicious radiographic analysis</li> </ul>	FACE TO FACE LECTURE (1 UNITS)	END COURSE MCQ
8.10	TMD	Students should understand the diagnosis, pathophysiology, imaging and treatment options in TMD as well as appreciate the importance of a team.	<ul style="list-style-type: none"> <li>Be able to define TMD</li> <li>Understand the pathophysiology of facial pain</li> <li>Be aware of the statistics, prevalence and incidence of TMD</li> <li>Understand the signs and symptoms of TMD</li> <li>Understand the anatomy of the TMJ</li> <li>Be aware of the type of joint the TMJ is</li> <li>Know how to classify TMD symptoms</li> <li>Be able to understand the various indices in TMD</li> <li>Be aware of the importance of MRI and other radiologic diagnosis methods</li> <li>Understand all forms of the aetiology of TMD including rare, uncommon and common reasons</li> <li>Know the pathophysiology of osteoarthritis</li> <li>Know the pathophysiology of displacements and disc displacements</li> <li>Understand the importance of locking and clicking joints</li> <li>Know how to use the compression test</li> <li>Be aware of the difference between malocclusion and maladaptive occlusion</li> <li>Know the prognosis of TMD and progression of various symptoms</li> <li>Be able to diagnose and treat MPDS</li> <li>Know the possibility of bruxism to propagate to TMD</li> <li>Understand the benefits of splint therapy in TMD</li> <li>Be aware of Botox, arthrocentesis and surgery in TMD therapy</li> <li>Be able to refer patients with TMD</li> </ul>	FACE TO FACE LECTURE (0.5 UNITS)	END COURSE MCQ
8.11	THE FUTURE OF ORTHODONTICS	Students should be able to appreciate various advances in all fields of science and their implications to orthodontics.	<ul style="list-style-type: none"> <li>Be aware of the accelerated technological world we live in today</li> <li>Be aware of the advances of genetics in orthodontics</li> <li>Be aware of the advances of material science in orthodontics</li> <li>Be aware of the advances of imaging science in orthodontics</li> <li>Be aware of the advances of robotics in orthodontics</li> <li>Be aware of the advances of tissue engineering in orthodontics</li> <li>Be aware of the advances of cybernetics in orthodontics</li> <li>Be aware of the advances of remote monitoring, AR and VR in orthodontics</li> <li>Be aware of the advances of AI and machine learning in orthodontics</li> <li>Be aware of the advances of quantum computing in orthodontics</li> <li>Be aware of the advances of blockchain technology in orthodontics</li> </ul>	FACE TO FACE LECTURE (0.25 UNITS)	END COURSE MCQ

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			<ul style="list-style-type: none"> <li>• Be aware of the advances of globalisation in orthodontics</li> <li>• Be aware of the power of various authorities in orthodontics and dentistry</li> </ul>		
8.12D	IN HOUSE REMOVABLE RETAINER	Students should know the steps required to fabricate a simple Essix retainer in house with conventional materials.	<ul style="list-style-type: none"> <li>• Know the basic materials and equipment required to manufacture VFR</li> <li>• Be able to provide a step-by-step method for fabrication of VFR</li> <li>• Understand that there are certain modifications required for VFR in different malocclusions</li> <li>• Understand the quality control for the VFR</li> <li>• Be able to develop a succinct workflow</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
8.13D	LINGUAL OVERVIEW	Students should know the basic premise that is lingual orthodontics and know the complexities of using such systems.	<ul style="list-style-type: none"> <li>• Understand the evolution and the requirement of the lingual brace system</li> <li>• Be able to appreciate the multiple factors bringing the lingual system to light</li> <li>• Bring the basic features of lingual braces as well as wires</li> <li>• Know the inflexion point and its importance in lingual braces</li> <li>• Know the bite plane effect and its importance in lingual braces</li> <li>• Be aware of the inter bracket distance in lingual braces</li> <li>• Be able to give differences between lingual and labial systems</li> <li>• Be able to provide the advantages and disadvantages of the lingual system</li> <li>• Understand the importance of case selection, know the indications and contra indications</li> <li>• Understand the value of laboratory assistance in lingual braces</li> <li>• Understand and possibly use a light lingual appliance in the lower incisors</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
8.14D	TMJ EXAMINATION	Students should be able to perform a basic TMJ examination and understand the signs and symptoms where one should be alerted.	<ul style="list-style-type: none"> <li>• Be able to understand the anatomy of the TMJ</li> <li>• Know how to palpate the different muscles of mastication</li> <li>• Know how to palpate the TMJ and detect different disc displacements</li> <li>• Be able to auscultate the joint to assist in the above</li> <li>• Understand the importance of lateral movements</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
8.15D	ORTHODONTIC FINANCES	Students should be able to understand the basics of finances in orthodontics and how to ethically utilise them in practice.	<ul style="list-style-type: none"> <li>• Be aware of the major expenses in orthodontics</li> <li>• Understand the way in which we can develop a budget for the correct equipment/materials/instruments</li> <li>• Understand the various treatment costs and how to formulate payment plans for the patient</li> <li>• Formulate costs for modified treatments</li> <li>• Understand other allied topics in finance</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ
8.16D	SPEECH	Students need to be able to appreciate the various ways orthodontics and malocclusions can affect speech.	<ul style="list-style-type: none"> <li>• Understand the way in which certain phonetics are developed</li> <li>• Understand the normal speech production and acquisition process</li> <li>• Be aware of dental situations with speech impairments</li> <li>• Understand that the tongue position and control is extremely important</li> <li>• Develop a referral program for patients of various impairments</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
8.17D	TONGUE EXERCISES	Students should be able to provide the patients with an array of tongue exercises to ensure correct position.	<ul style="list-style-type: none"> <li>• Understand the importance of the normal tongue physiology and control</li> <li>• Be aware of how the tongue develops and the basic anatomy involved</li> <li>• Be able to diagnose tongue thrust and know its implications</li> <li>• Be aware of the prognosis of uncontrolled tongue thrust</li> <li>• Be able to control tongue thrusts by multiple methods both conservative and non-conservative</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
8.18D	PERIO/ENDO ORTHO	Students should appreciate different fields of dentistry as they pertain to orthodontics.	<ul style="list-style-type: none"> <li>• Be aware of the conditions which would manifest in orthodontics with a periodontal angle</li> <li>• Understand the limitations and risks of the treated periodontal patient</li> <li>• Be aware of the conditions which would manifest in orthodontics with an endodontic angle</li> <li>• Understand the limitations and risks of moving root treated teeth</li> <li>• Know of the importance of slowing, pausing or stopping treatment and referring to specialists</li> </ul>	ONLINE ONLY (0.5 UNITS)	MINI MCQ
8.19D	BASIC SMILE DESIGN	Students should be able to formulate a basic smile design pattern for orthodontic treatment either with aligners or fixed appliances.	<ul style="list-style-type: none"> <li>• Know the value and limitations of DSD</li> <li>• Be able to perform a basic facial analysis</li> <li>• Understand the variations of the facial midline</li> <li>• Know of the relationships between the teeth, gingiva, lips</li> <li>• Know the intra and inter relationship of the teeth</li> <li>• Be aware of and the relevance of divine proportions</li> <li>• Understand how to measure and control contact points and embrasures</li> <li>• Be aware of facial as well as dental symmetry</li> </ul>	ONLINE ONLY (1 UNITS)	MINI MCQ

## END COURSE ASSESSMENT (MCQ)

## 3 CASE TREATMENT PLANNERS SUBMITTED

- Total Face to Face Hours – 56 Hours
- Total Online Hours – 44 Hours
- Aux Learning and Assessments online
- All lectures available in PDF

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