Course Code	Programme Outcome	Name of Program me	Name of course	Course outcome
MDS Ortho- 101	 The student should be able to obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures, and interpret them and arrive at a reasonable diagnosis about the Dentofacial deformities. Should be competent to fabricate and manage the most appropriate appliance- intra or extra oral, removable or fixed, mechanical or functional, and active or passive- for the treatment of any orthodontic problem to be treated singly. Develop an attitude to adopt ethical principles in all aspects of Orthodontic practice. Should be competent to know the factors affecting the long- range stability of orthodontic correction and their management. Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular Dentofacial problem. 	MDS- Orthodont ics & Dentofaci al Orthopaed ics	Applied Basic Sciences	 Applied Anatomy Under anatomy they would have learnt about Prenatal and post natal growth of head, bone growth, assessment of growth and development, muscles of mastication, Development of dentition and occlusion. Applied Physiology Under Physiology they would have learnt about Endocrinology and its disorders, Calcium and its metabolism, Nutrition- metabolism and their disorders, Muscle physiology, craniofacial biology, bleeding disorders. Dental Materials Under Dental Materials they would have learnt about Gypsum products, impression materials, acrylics, composites, banding and bonding cements, wrought metal alloys, orthodontic arch wires, elastics, applied physics, specification and tests methods, survey or all contemporary and recent advances of above. Genetics Under Genetics they would have learnt about Cell structure, DNA, RNA, protein synthesis, cell division, Chromosomal abnormalities, Principles of orofacial genetics, Genetics in malocclusion, Molecular basis of genetics, Studies related to malocclusion, Recent advances in genetics related to malocclusion, Genetic counseling, Bioethics and relationship to Orthodontic management of patients 5. Physical Anthropology Under Physical Anthropology they would have learnt about Evolutionary development of dentition, Evolutionary development of jaws Pathology Under Pathology they would have learnt about inflammation, and necrosis Biostatistics Under Biostatistics they would have learnt about Statistical principles, Sampling

			 and Sampling technique, Experimental models, design and interpretation, Development of skills for preparing clear concise and cogent scientific abstracts and Publication. 8. Applied research methodology in Orthodontics Under Applied research methodology in Orthodontics they would have learnt about Experimental design, Animal experimental protocol, Principles in the development, execution and interpretation of methodologies in Orthodontics, Critical Scientific appraisal of literature.
MDS Ortho- 102		Diagnosi s & Treatmen t planning	 Treatment planning 1. Orthodontic history Under Orthodontic History they would have learnt about Historical perspective, Evolution of orthodontic appliances, Pencil sketch history of Orthodontic peers, History of Orthodontics in India. 2. Concepts of occlusion and esthetics Under this, the students would learn about Structure and function of all anatomic components of occlusion, Mechanics of articulation, Recording of masticatory function, Diagnosis of Occlusal dysfunction, Relationship of TMJ anatomy and pathology and related neuromuscular physiology. 3. Etiology and Classification of malocclusion Under this, the students would learn about, a comprehensive review of the local and systemic factors in the causation of Malocclusion and Various classifications of malocclusion. 4. Dentofacial Anomalies Under this, the students would learn about, anatomical, physiological and pathological characteristics of major groups of developmental defects of the orofacial structures. 5. Child and Adult Psychology Under this, the students would learn about Stages of child development, Theories of psychological
			Management of child in orthodontic treatment,

			 Management of handicapped child, Motivation and Psychological problems related to malocclusion / orthodontics, Adolescent psychology, Behavioral psychology and communication. 6. Diagnostic procedures and treatment planning in orthodontics Under this, the students would learn about Stages of child development, Theories of psychological development, Management of child in orthodontic treatment, Management of handicapped child, Motivation and Psychological problems related to malocclusion / orthodontics, Adolescent psychology, Behavioral psychology and communication. 7. Cephalometrics Under this the student would learn about, Instrumentation, Image processing, Tracing and analysis of errors and applications, Radiation hygiene, Advanced Cephalometrics techniques, Comprehensive review of literature,
			 techniques, Comprehensive review of literature, Video imaging principles and application. 8. Practice management in Orthodontics Under this the student would learn about, Economics and dynamics of solo and group practices, Personal management, Materials management, Public relations, Professional relationship, Dental ethics and jurisprudence, Office sterilization procedures, Community based Orthodontics
MDS Ortho- 103		Clinical Drthodon tics	 Myofunctional Appliances The students will be capable of diagnosing and interpreting the knowledge obtained to treat developing malocclusion at a younger age. Dentofacial Orthopaedics The students will develop acumento identify and deliver treatment
			develop acumen to identify and deliver treatment regimes using orthopaedic appliances to the appropriate cases.3. Cleft Lip & Palate Rehabilitation The students will be trained to treat the CLCP cases with empathy starting with Naso alveolar moulding at the infant stage and then systematically treat the

		 during the mixed & permanent dentition by harmonizing the treatment plan with the other members og the multidisciplinary cleft team. 4. Biology of tooth movement Basic understanding of the applied anatomy & physiology regarding to tooth & its surrounding structures will be inculcated into the student, so that the results of application of orthodontic forces can be understood and clinically used. 5. Orthodontics/ Orthognathic Surgery Students will be thoroughly trained in conjoint diagnosis & treatment planning of cases requiring surgical intervention. 6. Ortho/ Perio/ Prostho inter relationship Students will be trained in treating complicated cases requiring a multidisciplinary approach in patient management. 7. Basic Principles of mechanotherapy Students will be trained in designing , construction , fabrication &management of cases using both removable & fixed orthodontics . 8. Applied preventive aspects in Orthodontics A comprehensive view of diagnosing & preventing caries, periodontal diseases to maintain proper
		 inter arch relationship. 9. Interceptive orthodontics Students will be trained in growth guidance, diagnosing & treatment planning of early malocclusion both at mixed/ permanent dentition.
		10. Retention & relapse Inculcating the acumen to analyze post
MDS Ortho- 104	Es	treatment stability to prevent anyreplasesayRecent Advances The Students would be trained in above mentioned topics in detail, so that the student would know the recent updates along with the previous literature available.