	Course Name	Course Description
1.	Introduction to Dental Technology	This course is designed to provide students with the skills, knowledge and background necessary to become a dental technologist. An introduction of materials and construction of a variety of stages of dental prosthesis and appliances will be demonstrated. Students will also be introduced to basic concepts in chemistry to aid their understanding in dental materials. A hands-on approach will be taken, with laboratory sessions, as well as lectures to provide an understanding and evaluation of how different materials and dental equipment's are used.
2.	Dental Morphology 1	This course consists of theoretical and laboratory components and is limited to the teaching of dental anatomy and morphology of teeth and related structures by carving them on wax blocks. The student will learn about the various tooth nomenclature and the relation between the classes and types of teeth and its supporting tissue structures. This course emphasizes on the ability to identify the tooth, develop manual dexterity by carving on wax block and perception related to the tooth morphology.
3.	Dental Materials 1	Dental Materials is a course that provides an introduction to dental materials used in the fabrication of various dental prosthesis. From this knowledge base, students learn to understand the role of dental materials in the delivery of indirect-restorative care. The composition, properties, and manipulation of materials used in dental laboratory.
4.	Dental Morphology 2	This course consists of theoretical and laboratory part and is limited to the teaching of Dental Morphology. It covers different phases of the morphological characteristics of different traits of teeth
5.	Complete Denture 1	his course introduces basic and intermediate techniques in laboratory steps of complete denture construction (Initial processing). Topics include pouring the master casts, custom trays, (special trays) construction with different-different materials and techniques, finishing, and polishing of trays and constructions of baseplates, occlusion rims, (Record blocks.) Upon completion, students should be able to construct secondary Impression trays and record blocks.
6.	Infection Control	This course provides students with an understanding about the different means of laboratory sepsis, infection, prevention, and control in contemporary dental laboratory environment. Students will be encouraged to explore aspects of dental laboratory governance, prevention of infection and outbreak/exposure management, with particular relevance to the dental laboratory practice
7.	Dental Materials 2	Dental Materials is a course that provides an introduction to dental materials used in the fabrication of various dental prosthesis. From this knowledge base, students learn to understand the role of dental materials in the delivery of indirect-

		restorative care. The composition, properties, and manipulation of materials used in dental laboratory.
8.	Crown & Bridge 1	By the end of this course students will be able to: 1. Demonstrate basic knowledge of principals and techniques pertaining to the treatment of fixed partial denture. 2. Types, parts and various materials used to fabricate fixed partial denture. 3. Provide current information on standards of care for the management of patients requiring fixed partial denture. 4. Perform all laboratory procedures required to design/fabricate a fixed partial denture
9.	Complete Denture 2	This course introduces the various steps involved during the fabrication of complete denture. At the end of the course students should be able to confidently mount the master casts, select and arrange teeth accordingly and finally be able to complete the flasking, acrylic packing and curing of the denture. The students learn the technique of finishing and polishing the dentures. They are also trained in repair, relining and rebasing.
10.	Crown & Bridge 2	This is a Theory and Laboratory course designed to provide students with the essential information about fixed prostheses including treatment planning for crowns and bridges, biomechanics and configurations of fixed partial denture, principles of tooth preparation, preparation of full veneer crowns, restoration of extensively damaged teeth, temporary crowns and bridges, types of Pontics, Contact areas and Embrasures, Soldering Methods, Various Types of Bridges and resin-bonded bridges, Various factors involved in Bridge Construction. Have a proper knowledge about the main materials that are used in fixed prosthodontics including (Definitive/ Provisional restorations).
11.	Complete Denture 3	This course consists of theoretical and laboratory part and is limited to the teaching of Complete Dentures. It covers theoretical situations for different phases of treatment options with Complete Removable Dentures
12.	Clinical Studies 1	This course focusses on comprehensive knowledge of the anatomy of teeth, different types of teeth arrangements, carving of gum anatomy on dentures, dewaxing and processing of final dentures. This course comprises of practical sessions every week. It includes: • The anatomy of oral cavity and different types of jaw relation. • The morphology and anatomy of each tooth and its relation to each other (Occlusion) • The different inter arch and intra arch relationships and fabrication of overdentures, immediate dentures, and single dentures opposing natural dentition.
13.	Partial Denture 1	This is the basic course for metallic partial denture fabrication. Precise work is mandatory to make a metallic partial denture frame work fabrication. Repeated practice of work is compulsory to achieve good skill
14.	Partial Denture 2	This semester will focus on advanced steps in fabrication of of Metallic partial denture frame work Sophisticated equipments are

		used for fabrication of metallic partial denture fabrication. Need more practice to make a good metallic partial denture framework
15.	Partial Denture 3	This course is designed to study about all steps in fabrication of acrylic partial denture, acrylisation procedure of metallic partial denture and repair of fractured acrylic denture base and tooth.
16.	Clinical Studies 2	This course consists of laboratory part and is limited to the teaching of removable partial dentures. It covers situations for different phases of treatment options with Removable Partial Dentures. Syllabus includes diagnosis, treatment planning, and laboratory procedure in fabrication of Removable Partial Dentures
17.	Orthodontics	The main purpose of this course is to provide the students with knowledge and skills concerning to fabricate removable, fixed and functional orthodontic appliances. By the end of this course the students will demonstrate the ability to assimilate and integrate information from lectures, practical sessions, tutorial, and independent activities on the importance of removable orthodontic appliances in correcting malocclusion. Theoretical background relevant to technical and clinical aspects of the types of orthodontics appliance
18.	Porcelain 1	This is a Theory and Laboratory course designed to provide students the ability to assimilate and integrate information from lectures, practical sessions, tutorial, and independent activities on the properties of dental porcelain, Fabrication of PFM Crowns and bridges, Fabrication of all Ceramic Crowns with various Different Techniques and Various Porcelain Application Techniques. At the end of the course the student should be able to: • Understanding of fixed partial tooth supported dentures (focusing on metal-ceramic crowns and bridges), of their manufacturing possibilities, of tooth bio-mechanical and aesthetic preparation principles. • Understanding of the stages to be performed in clinical work and the dental technical laboratory • Identify and critically evaluate own clinical work failures and their possible causes and find solutions.
19.	Porcelain 2	This is a Theory and Laboratory course designed to provide students the ability to gain excellent practical skills to fabricate different types of ceramic full crowns, metal fused ceramic crowns and ceramic bridges.The aim of this course is to provide instructions in the theoretical and practical aspects of planning and making Fixed Restorations in PFM and ALL Ceramic Crowns and Bridges . At the end of the course the student should be able to: • Demonstrate the ability to gain practical skills enabling him to be familiar with fabrication of various types of porcelain crowns, various alloys systems, color in dentistry, porcelain veneers. • To give students an understanding of fixed partial tooth supported dentures (focusing on metal-ceramic crowns and All Ceramics), of their manufacturing possibilities, the stages to be performed in clinical work and the dental technical laboratory. • Learning the

		physical properties and manipulation of elastomeric materials and be able to manipulate and select the one appropriate for the specific case.
20.	Maxillofacial prosthesis	Maxillofacial prosthesis is a branch in prosthodontics specialty. It mainly deals with the patient with congenital and acquired defects. Its need a special attention and training to treat this patient because of complicated procedures and integration of different specialties. In dental technology, maxillofacial prosthesis gives challenge in constructing the prosthesis, it needs a team work and coordination between various specialties and dental technician. This course is aim to teach the students about various maxillofacial defects, problems, treatment modalities and material properties used to construct the prosthesis. This course also aims to make student familiar with all the new technology available at present.
21.	Dental Implant	This course consists of theoretical and laboratory part and is limited to the teaching of Dental Implants. It covers theoretical situations for different phases of treatment options with Implants and independent activities on mounting models, correct method fabricating implant stents for accurate positioning of implant in the jaw bone, different materials used in Implant dentistry, different components of Implant system for accurate planning of implant prosthesis
22.	New in Dental Technology	This course consists of theoretical and laboratory components and is limited to the teaching of new developments in the field of dental technology. It covers theoretical background for different new instruments and methods introduced. Syllabus includes user manuals and instructions to operate new instruments, and laboratory procedure in fabrication of different prosthesis using latest equipment's. Lectures focus on basic concepts, principles, indications and limitations of these laboratory procedures. During laboratory sessions students are instructed to do all the laboratory work required for construction of complete removable denture, partial denture and fixed partial denture by using CAD CAM and injection molding techniques