



## **BSc in Dental Technology**

- **Program name:** Dental Technology
- **Program code:** TDEN
- **Study mode:** Full-time
- **Credit hours:** 132
- **Study duration:** 4 years
- **Program description:** the program includes courses in dental materials, dental morphology and issue in dental laboratory technology. The extensive laboratory component covers all parts of dental technology: Fixed restorations, partial and complete removable dentures, orthodontic appliances, maxillofacial prostheses and dental implant. As a result of this experience, students acquire skills in waxing, gypsum, design, fit and finish different dental prostheses, as they pertain to all the major areas of dental technology. The general aspect of the curriculum includes content in Biology, chemistry, physics, computers managements, medical ethics, biostatistics, human physiology and anatomy.
- **Objectives**
  1. To provide students with the theoretical knowledge and practice for the construction of complete and partial (transitional and cobalt chromium) removable dentures.
  2. To provide students with theoretical knowledge and practice for construction of fixed prostheses including full metal restorations, ceramo-metal restorations and all-ceramic restorations.
  3. To provide students with theoretical knowledge and practice for construction implant supported prostheses.
  4. To provide students with theoretical knowledge and practice on different designs of orthodontic appliances.
  5. To provide students with theoretical knowledge and practice on the obturators used for intra-oral maxillofacial prostheses.
  6. To provide students with theoretical knowledge and practice on fabrication of missing parts in the face including eye, ear, nose and fingers.
  7. To equip the students with the professional ethics as a profession.
- **Career:** Graduates find career opportunities in private dental laboratories, educational laboratories, laboratories of medical centres own by the government sectors, and computer aided design\computer aided manufacturing (CAD/CAM) centres in Jordan and surrounding countries (e.g., GULF countries).



# Jordan University of Science and Technology

Faculty of Applied Medical Sciences  
Department of Applied Dental Sciences



- Study plan:

## First Year

| First Semester |                                       |              | Second Semester |  |              |
|----------------|---------------------------------------|--------------|-----------------|--|--------------|
| Course Code    | Course Name                           | Credit Hours | Course Code     | Course Name  | Credit Hours |
| ARB 101        | Arabic language                       | 3            | ADS 102         | Introduction to dental sciences and dental terminology | 1            |
| CHEM 103       | General chemistry                     | 3            | BIO 103         | General biology  | 3            |
| CHEM 107       | General chemistry lab                 | 1            | BIO 107         | General biology practical                              | 1            |
| ENG 111        | English language 1                    | 3            | CIS 100         | Computer skills  | 3            |
| HSS 100        | Culture and University behavior       | 1            | ENG 112         | English language 2                                     | 3            |
| MS 100         | Military sciences University elective | 3<br>3       | PHY 103         | General physics University elective                    | 3<br>3       |

## Second Year

| First Semester |   |              | Second Semester |   |              |
|----------------|---|--------------|-----------------|---|--------------|
| Course Code    | Course Name                                 | Credit Hours | Course Code     | Course Name   | Credit Hours |
| ADS 201        | Dental morphology and occlusion             | 1            | ADS 242         | Oral pathology  | 2            |
| ADS 203        | Dental morphology and occlusion practical   | 2            | TDEN 202        | Maintenance of equipment and general safety in dental technology laboratories | 1            |
| TDEN 203       | Dental materials                            | 2            | TDEN 210        | Removable complete prosthodontics 1   | 1            |
| TDEN 205       | Dental materials practical                  | 1            | TDEN 212        | Removable complete prosthodontics 1 practical                                 | 2            |
| TDEN 207       | Fundamentals of dental technology           | 1            | TDEN 222        | Removable partial prosthodontics 1  | 1            |
| TDEN 209       | Fundamentals of dental technology practical | 1            | TDEN 224        | Removable partial prosthodontics 1 practical                                  | 1            |
| MED 218        | Gross anatomy and histology                 | 3            | TDEN 232        | Fixed prosthodontics 1  | 1            |
| MED 230A       | Human physiology                            | 3            | TDEN 234        | Fixed prosthodontics 1 practical  | 2            |
| MED 230B       | Human physiology lab                        | 1            | MED 219         | Head and neck anatomy   | 3            |
|                | University elective                         | 3            | PARA 391        | Ethics in applied medical careers   | 1            |



**Third Year**

| First Semester |   |              | Second Semester |  |              |
|----------------|---|--------------|-----------------|--|--------------|
| Course Code    | Course Name                                   | Credit Hours | Course Code     | Course Name  | Credit Hours |
| TDEN 311       | Removable complete prosthodontics 2           | 1            | ADS 491         | Administration and quality assurance in applied medical sciences | 3            |
| TDEN 313       | Removable complete prosthodontics 2 practical | 2            | TDEN 324        | Advanced removable prosthodontics                                | 1            |
| TDEN 321       | Removable partial prosthodontics 2            | 1            | TDEN 326        | Advanced removable prosthodontics practical                      | 2            |
| TDEN 323       | Removable partial prosthodontics 2 practical  | 2            | TDEN 334        | Fixed prosthodontics 3   | 1            |
| TDEN 331       | Fixed prosthodontics 2                        | 1            | TDEN 336        | Fixed prosthodontics 3 practical                                 | 2            |
| TDEN 333       | Fixed prosthodontics 2 practical              | 3            | TDEN 344        | Orthodontics 2   | 1            |
| TDEN 341       | Orthodontics 1                                | 1            | TDEN 346        | Orthodontics 2 practical   | 2            |
| TDEN 343       | Orthodontics 1 practical                      | 2            | TDEN 354        | Maxillofacial prosthetics 2                                      | 1            |
| TDEN 351       | Maxillofacial prosthetics 1                   | 1            | TDEN 356        | Maxillofacial prosthetics 2 practical                            | 2            |
| TDEN 353       | Maxillofacial prosthetics 1 practical         | 1            | ADS 386         | Clinical oral hygiene 2 practical                                | 2            |
| PH 311         | Biostatistics                                 | 2            |                 |  |              |

**Fourth Year**

| First Semester |                                     |              | Second Semester |                                    |              |
|----------------|-------------------------------------|--------------|-----------------|------------------------------------|--------------|
| Course Code    | Course Name                         | Credit Hours | Course Code     | Course Name                        | Credit Hours |
| TDEN 421       | Applied removable prosthodontics 1  | 5            | TDEN 422        | Applied removable prosthodontics 2 | 5            |
| TDEN 431       | Applied fixed prosthodontics 1      | 5            | TDEN 432        | Applied fixed prosthodontics 2     | 5            |
| TDEN 441       | Applied orthodontics                | 2            | TDEN 462        | Esthetic prosthodontics 2          | 2            |
| TDEN 461       | Esthetic prosthodontics 1           | 1            | TDEN 472        | Dental implants                    | 1            |
| TDEN 463       | Esthetic prosthodontics 1 practical | 2            | TDEN 474        | Dental implants practical          | 2            |
| LM 491         | Scientific research methods         | 1            | LM 493          | Research project                   | 2            |