Beni-Suef University
Faculty of Dentistry
Quality Assurance Unit

Programme Specification

A- Basic Information

University: **Beni-Suef**
Faculty: **Dentistry**
Programme Title: **Master's degree of Prosthodontics**
Program type: **Master Program**
Departments: **Fixed Prosthodontics / Removable Prosthodontics**
Coordinator: Ass. Prof. Shahinaze sayed
External evaluator :
Academic year: **2022/2023**
Last date of programme specifications approval:

B- Professional Information

1- Programme aims

The aim of the Prosthodontics Master's Program for dental students is to provide advanced education and training in the field of prosthodontics, equipping students with the knowledge, skills, and clinical expertise required to excel as proficient and compassionate prosthodontists. Through a comprehensive curriculum, clinical experiences, and research opportunities, the program aims to achieve Clinical Proficiency , Evidence-Based Practice , Patient-Centered Care , Interdisciplinary Collaboration , Research and Innovation , Ethics and Professionalism

2- Intended learning outcomes of course (ILOs)

a- Knowledge and understanding:

a1 Demonstrate a comprehensive understanding of the foundational principles, theories, and concepts in prosthodontics, including dental anatomy, occlusion, materials science, and biomechanics.

a2 Analyze and apply advanced knowledge of treatment planning, case selection, and sequencing for various prosthodontic interventions, including fixed and removable prosthodontics, implant restorations, and esthetic rehabilitations.

a3 Critically assess the latest research and evidence in prosthodontics to inform clinical decision-making and stay current with evolving trends and best practices in the field.

a4 Explain the principles of interdisciplinary collaboration and their role in achieving optimal patient outcomes in complex prosthodontic cases.

b- Intellectual skills:

b.1 Evaluate patient cases using a systematic and critical approach, integrating clinical, radiographic, and diagnostic information to formulate accurate diagnoses and treatment plans.

b.2 Synthesize and analyze complex clinical scenarios, identifying potential challenges and devising innovative solutions for prosthodontic treatment.

b.3 Apply advanced problem-solving skills to adapt prosthodontic techniques and procedures to unique patient needs and clinical situations.

b.4 Critique and interpret scientific literature in prosthodontics, demonstrating the ability to assess the validity and reliability of research findings.

c- Professional and practical skills:

c1 Perform advanced clinical procedures in prosthodontics with precision and proficiency, including the design, fabrication, and fitting of various dental prostheses and restorations.

c2 Communicate effectively with patients, demonstrating empathy, active listening, and clear explanation of treatment options to facilitate patient understanding and informed consent.

c3 Demonstrate proficiency in managing patient risk factors, addressing complications, and providing long-term maintenance and follow-up care for prosthodontic treatments.

c4 Collaborate with other dental specialists and healthcare professionals to develop comprehensive treatment plans and manage interdisciplinary cases.

d- General and transferable skills:

d1 Exhibit strong communication skills, both written and oral, for effective interaction with patients, colleagues, and interdisciplinary teams.

d2 Demonstrate effective time management and organization skills to efficiently plan and execute prosthodontic treatments while balancing clinical responsibilities and academic pursuits.

d3 Display a commitment to ethical and professional conduct, upholding the highest standards of integrity, confidentiality, and patient-centered care.

d4 Foster a lifelong learning mindset, engaging in continuous professional development, and staying informed about emerging technologies and advancements in prosthodontics.

d5 Exhibit leadership qualities and contribute to the growth of the prosthodontic community through mentorship, education, and active involvement in professional organizations.

3- Academic standards

3a External references for standards (benchmarks)

1. **American College of Prosthodontists (ACP):** The ACP is a professional organization dedicated to the advancement of prosthodontics. Their publications, guidelines, and position papers provide valuable insights into the standards of prosthodontic education and practice.
2. **Commission on Dental Accreditation (CODA):** CODA is the accrediting body for dental education programs in the United States. Their standards and accreditation criteria for advanced specialty education programs in prosthodontics offer comprehensive guidelines for program development and evaluation.
3. **World Dental Federation (FDI):** FDI provides international perspectives on dental education and practice. Their publications and guidelines can offer insights into global best practices for prosthodontics education.
4. **European Prosthodontic Association (EPA):** EPA is an organization that promotes prosthodontic education, research, and practice in Europe. Their resources and publications may offer valuable benchmarks for prosthodontics programs.
5. **Research Journals and Publications:** Peer-reviewed prosthodontics journals, such as the "Journal of Prosthodontics," "The International Journal of Prosthodontics," and "The Journal of Prosthetic Dentistry," publish research articles, clinical guidelines, and case studies that reflect current standards and advancements in the field.
6. **Textbooks and Educational Resources:** Standard prosthodontics textbooks authored by respected professionals in the field can provide comprehensive coverage of essential topics, treatment techniques, and best practices.
7. **Previous Accredited Programs:** Reviewing the curricula and accreditation standards of established and well-regarded Prosthodontics Master's Programs can offer insights into industry norms and expectations.

3b Comparison of provision to external references

1. **American College of Prosthodontists (ACP):**

- Provision Comparison: The program's curriculum aligns with ACP's guidelines for comprehensive prosthodontic education, covering topics such as treatment planning, occlusion, implant prosthodontics, and esthetics.
- Clinical Proficiency: The program ensures students are proficient in the design and fabrication of various dental prostheses.
- Collaboration: Interdisciplinary collaboration is emphasized, mirroring ACP's emphasis on teamwork in complex cases.

2. **Commission on Dental Accreditation (CODA):**

- Provision Comparison: The program meets or exceeds CODA's accreditation criteria for advanced specialty education in prosthodontics.
- Curriculum and Clinical Training: The program's curriculum aligns with CODA's stipulations for didactic and clinical components, ensuring students receive comprehensive training.

3. **Research Journals and Publications:**

- Provision Comparison: The program integrates the latest research findings from peer-reviewed prosthodontics journals into its curriculum.
- Evidence-Based Practice: The curriculum promotes evidence-based decision-making and keeps students informed about the latest research.

4. **Textbooks and Educational Resources:**

- Provision Comparison: The program's curriculum draws from standard prosthodontics textbooks to ensure comprehensive coverage of essential topics.
- Core Knowledge: The curriculum is designed to cover the fundamental concepts and techniques outlined in key textbooks.

4- Curriculum Structures and Contents

4a programme duration: 6 Academic semester (3 years program)

4b Programme structure

1. **Didactic Courses:**

- Prosthodontic Theory and Concepts: Comprehensive coverage of foundational prosthodontic principles, theories, and concepts.
- Dental Materials Science: In-depth study of dental materials used in prosthodontics, including properties, manipulation, and selection criteria.
- Occlusion and Temporomandibular Joint Disorders: Understanding occlusal relationships, occlusal forces, and management of TMJ disorders.
- Implant Prosthodontics: Advanced training in planning, placement, and restoration of dental implants.
- Esthetic Prosthodontics: Techniques for achieving optimal esthetic outcomes in prosthodontic treatments.
- Treatment Planning and Case Presentation: Strategies for comprehensive treatment planning and effective communication with patients.
- Research Methods and Evidence-Based Practice: Training in research design, data analysis, and critical appraisal of scientific literature.

2. **Clinical Training:**

- Preclinical Exercises: Hands-on training in laboratory settings to develop technical skills in prosthodontic procedures.
- Patient Care: Clinical experiences with patients, performing procedures such as

Semester 1

Code	Title	Weeks	Didactic	practical	Credit H	Course Mapping				
						Course work	Requirement	Final practical	Final written	Total
DBM 101	Applied Biomaterial I	15	2		2	20	20		60	100
DOP 101	Oral Pathology	15	2	2	3	20	10	30	40	100
ANT 101	Anatomy of head & Neck	15	1	2	2	20	10	30	40	100
DFP 101	Technology of fixed prosthodontics I	15	2	2	3	20	10	30	40	100
DRP 101	Technology of removable prosthodontics I	15	2	2	3	20	10	30	40	100
DRP 201	Occlusion	15	2		2	20	20		60	100
	Total credit H.				15					

Semester 2

Code	Title	Prerequisite	Weeks	Didactic	practical	Credit H	Course Mapping				
							Course work	Requirement	Final practical	Final written	Total
DBM 102	Applied Biomaterial II	DBM 101	15	2		2	20	20		60	100
DRA 712	Applied x-ray for prosthodontics	DOP 101	15	2	2	3	20	10	30	40	100
DEN 711	Advanced Endodontics & conservative Dentistry		15	2		2	20	20		60	100
DFP 102	Technology of fixed prosthodontics II	DFP 101	15	2	2	3	20	10	30	40	100
DRP 102	Technology of removable prosthodontics II	DRP 101	15	2	2	3	20	10	30	40	100
DRP 202	Occlusion II	DRP 201	15	2		2	20	20		60	100
	Total credit H.					15					

fixed and removable prosthodontics, implant restorations, and esthetic rehabilitations.

- Comprehensive Cases: Managing complex prosthodontic cases from diagnosis and treatment planning to final restoration.
- Interdisciplinary Collaboration: Collaboration with other dental specialists and healthcare professionals for comprehensive patient care.

3. **Research Component:**
   - Thesis or Research Project: Independent research project under faculty guidance, focusing on a relevant prosthodontic topic.
   - Research Seminars: Regular seminars or workshops to discuss research progress, findings, and methodology.

5- Programme courses
Level/year(1)

Semester 5

Code	Title	Prerequisite	Weeks	Didactic	practical	Credit H	Course Mapping				
							Course work	Requirement	Final practical	Final written	Total
DFP 605	Case presentation & comprehensive treatment plan in prosthodontics I		15	2		2	20	20		60	100
DFP 505	Esthetics in prosthodontics I	DFP 204	15	2	2	3	20	10	30	40	100
DFP 305	Advanced implantology I	DFP 304	15	2	2	3	20	10	30	40	100
DRP 405	Overdenture & Attachment	DRP 304	15	2	2	3	20	10	30	40	100
DRP 505	Full mouth rehabilitation I	DFP 204	15	2	4	4	20	10	30	40	100
DRP 605	Prosthodontics management of TMD I	DRP 304	15	2		2	20	20		60	100
	Total credit H.					**17**					

Semester 6

Code	Title	Prerequisite	Weeks	Didactic	practical	Credit H	Course Mapping				
							Course work	Requirement	Final practical	Final written	Total
DRP 706	Case presentation & comprehensive treatment plan in prosthodontics II	DFP 605	15	2		2	20	20		60	100
DFP 506	Esthetics in prosthodontics II	DFP 505	15	2	2	3	20	10	30	40	100
DFP 306	Advanced implantology II	DFP 305	15	2	2	3	20	10	30	40	100
DRP 406	Maxillofacial prosthodontics	DRP 405	15	2	2	3	20	10	30	40	100
DFP 706	Full mouth rehabilitation II	DRP 505	15	2	4	4	20	10	30	40	100
DRP 606	Prosthodontics management of TMD II	DRP 605	15	2		2	20	20		60	100
	Total credit H.					**17**					

Total credit hours 95 + 5 Credit Hours (elective courses) = 100 C.H

4- Teaching and learning methods

Semester 3

Code	Title	Prerequisite	Weeks	Didactic	practical	Credit H	Course Mapping				
							Course work	Requirement	Final practical	Final written	Total
DFP 203	Clinical fixed prosthodontics I	DFP 102	15	2	2	3	20	10	30	40	100
DRP 303	Clinical removable prosthodontics I	DRP 102	15	2	2	3	20	10	30	40	100
DFP 303	Basic implantology I	DBM 102	15	2	2	3	20	10	30	40	100
DPM 713	Advanced periodontology		15	2	2	3	20	10	30	40	100
DFP 403	Digital dentistry I	DFP 102	15	2	2	3	20	10	30	40	100
	Total credit H.					**15**					

Semester 4

Code	Title	Prerequisite	Weeks	Didactic	practical	Credit H	Course Mapping				
							Course work	Requirement	Final practical	Final written	Total
DFP 204	Clinical fixed prosthodontics II	DFP 203	15	2	2	3	20	10	30	40	100
DRP 304	Clinical removable prosthodontics II	DRP 203	15	2	2	3	20	10	30	40	100
DFP 304	Basic implantology II	DFP 303	15	2	2	3	20	10	30	40	100
DFP 404	Digital dentistry II	DFP 403	15	2	2	3	20	10	30	40	100
DOR 711	Multidisciplinary seminars		15	2		2	20	20		60	100
DRP 404	Current prosthodontics literature	DRP 303	15	2		2	20	20		60	100
	Total credit H.					**16**					

a – Small group discussion / Brain storming.	**Yes/No**
b- Interactive lecture	**Yes**
c – Demonstrations.	**Yes**
d- Research project.	**Yes**

5- Student assessment methods (please select the assessment methods you use)

a. Written and short answer question.	**Yes/No**
b. Written and long essay.	**Yes**
c. Multiple choice questions (MCQ)	**Yes**
d. True or false question with justifying answer.	**Yes**
e. Practical / OSPE.	**Yes**
f. Project work .	**Yes**
g. logbooks.	**Yes**

Assessment schedule

Eg. Assignment. Quiz, midterm

Quiz 1	4th week			
Quiz 2	8th Week			
Assignment	11th Week			

Weighting of assessments

	CW	Written	Practical	Oral Exam	Total
Final Exam	20	40	20	20	100
Attendance					
Participation					

- List of reference;

1. Contemporary Fixed Prosthodontics by Stephen F. Rosenstiel, Martin F. Land, and Junhei Fujimoto
2. **Complete Dentures: From Planning to Problem Solving** by Winkler, G. Levin, and A. P. Davis
3. **Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses** by George A. Zarb, John Hobkirk, and Steven Eckert
4. **Clinical Maxillofacial Prosthetics** by Thomas D. Taylor, John R. Zuniga, and Carl Driscoll
5. **Dental Implant Prosthetics** by Carl E. Misch
6. **McCracken's Removable Partial Prosthodontics** by Alan B. Carr and David T. Brown
7. **Dental Materials: Properties and Manipulation** by John M. Powers and John C. Wataha
8. **Fundamentals of Occlusion** by Herbert T. Shillingburg Jr., Richard Jacobi, and Susan E. Brackett
9. **Esthetics of Anterior Fixed Prosthodontics** by Gerard J. Chiche and Alain Pinault
10. **Implant Dentistry: A Practical Approach** by Arun K. Garg
11. **Atlas of Removable Partial Denture Design** by Russell J. Stratto
12. **Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses** by George A. Zarb, John Hobkirk, Steven Eckert, Rhonda Jacob, and Charles Bolender

Facilities required for teaching and learning

1. **Lecture Halls and Seminar Rooms:**

- Equipped with audio-visual aids, projectors, and interactive whiteboards for effective presentations and discussions.
- Comfortable seating arrangements to accommodate students and encourage active participation.

2. **Dental Simulation Laboratories:**

- Fully equipped with dental units, phantom heads, and workstations for hands-on preclinical exercises and skill development
- Dental materials and instruments for practicing prosthodontic procedures

3. **Clinical Facilities:**

- Modern clinical operatories with dental chairs, equipment, and instruments for treating patients under faculty supervision
- Radiographic facilities for diagnosis and treatment planning.

4. **Research Laboratories:**

- Well-equipped research facilities for students to conduct experiments, analyze data, and contribute to prosthodontic research.
- Computers and software for data analysis and simulation

5. **Library and Resource Center:**

- Comprehensive collection of prosthodontics textbooks, research journals, and electronic resources for reference and self-study
- Access to online databases and digital libraries for research purposes.

6. **Prosthodontic Workshops:**

- Specialized spaces for fabricating dental prostheses, including dentures, crowns, bridges, and implant-supported restorations
- Advanced equipment such as CAD/CAM systems for digital prosthodontics

7. **Computer Labs:**

- Computer facilities with software for dental treatment planning, simulation, and digital design of prostheses.
- Access to educational software and tools for learning and practicing prosthodontic concepts

8. **Audio-Visual Resources:**

- Recording and playback facilities for capturing lectures, demonstrations, and clinical procedures for later review.

Course coordinator:
Head of Department:

Date: / /