YENEPOYA
(DEEMED TO BE UNIVERSITY)

REGULATIONS AND CURRICULUM GOVERNING

FELLOWSHIP PROGRAM IN ORAL IMPLANTOLOGY

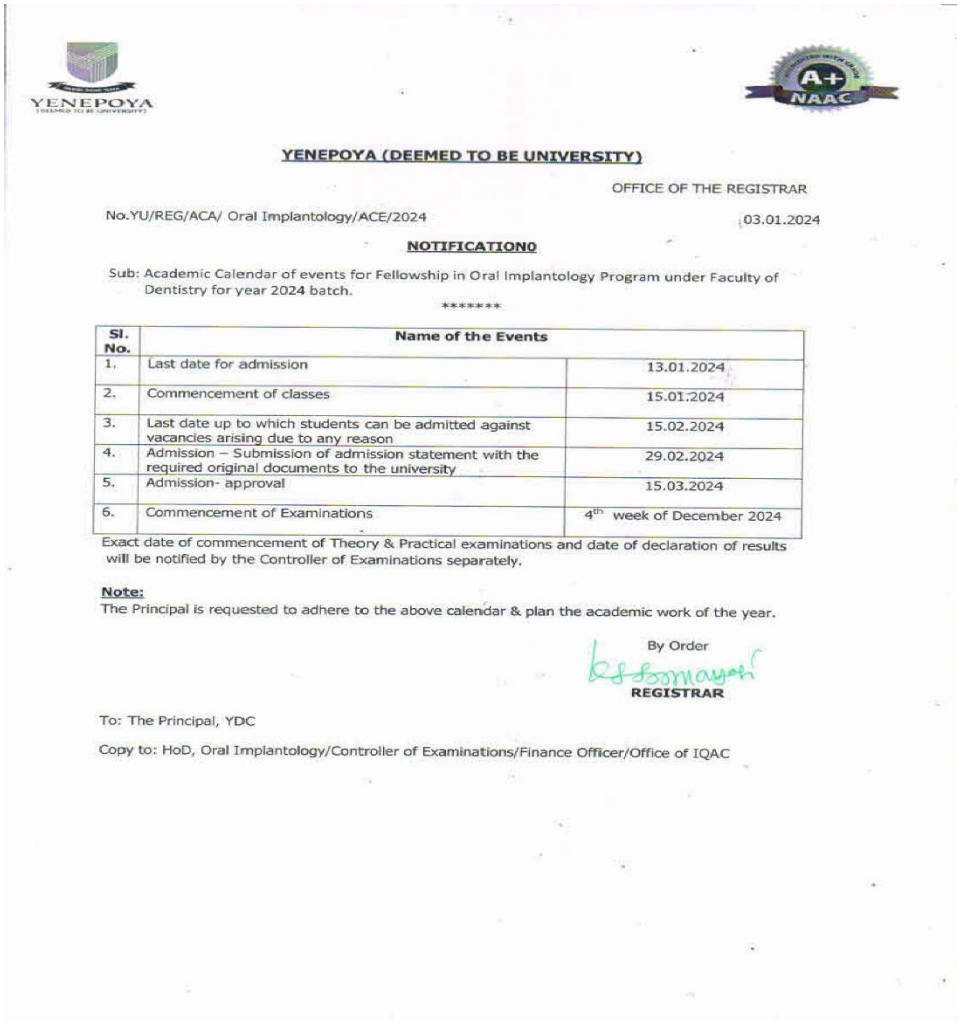
(NOTIFICATION - 35ACM/02/2019 dated 01.06.2019)

Name of the Constituent Unit/Centre: Yenepoya Dental College

YENEPOYA
(DEEMED TO BE UNIVERSITY)

Deralakatte, Mangalore, Karnataka.

NOTIFICATION FROM THE UNIVERSITY



YENEPOYA (DEEMED TO BE UNIVERSITY)

OFFICE OF THE REGISTRAR

No.YU/REG/ACA/ Oral Implantology/ACE/2024 03.01.2024

NOTIFICATIONO

Sub: Academic Calendar of events for Fellowship in Oral Implantology Program under Faculty of Dentistry for year 2024 batch.

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Sl. No.	Name of the Events	
1.	Last date for admission	13.01.2024
2.	Commencement of classes	15.01.2024
3.	Last date up to which students can be admitted against vacancies arising due to any reason	15.02.2024
4.	Admission – Submission of admission statement with the required original documents to the university	29.02.2024
5.	Admission- approval	15.03.2024
6.	Commencement of Examinations	4th week of December 2024

Exact date of commencement of Theory & Practical examinations and date of declaration of results will be notified by the Controller of Examinations separately.

Note:
The Principal is requested to adhere to the above calendar & plan the academic work of the year.

By Order

REGISTRAR

To: The Principal, YDC

Copy to: HoD, Oral Implantology/Controller of Examinations/Finance Officer/Office of IQAC

YENEPOYA
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1. PREAMBLE:

The development of science and technology in dentistry, the inclusion of newer treatment modalities, demands the dental practitioners to constantly update their knowledge in these modalities to fulfill the treatment needs of the populations they serve. Consequently, specialization in Dentistry has occurred as a natural evolutionary process across several disciplines of the dental profession. However, the competencies for the newer treatment modalities are often provided by the industry rather than the educational institutes. The transition toward specialization and adoption of a newer treatment option often presents the specific disciplines with challenging concerns and issues. Creative solutions to these concerns will strengthen the integrity and cohesiveness of the profession. This fellowship program is aimed at providing the dental practitioner a through, systematic and logical exposure to implant dentistry and to provide clinical knowledge and skills of the highest level. Assisted by a very favorable staff-student ratio, where the relationship between student and mentor is direct and highly personalized.

2. Definition

The Implant training program is designed for fresh dental graduates as well as post graduates who wish to expand their treatment capabilities to include treatment planning for dental Implants, placement and restoration of dental implants. This comprehensive surgical and prosthetic Implant training program focuses on implant placement into healed as well as immediate extraction sites and prosthetic. The advanced graduate level program will include all important aspects of advance implant dentistry: diagnosis and surgical and prosthetic treatment planning in implant dentistry, understanding of surgical protocols and prosthetic protocols, long-term maintenance, and prevention and management of implant complications.

The clinical training in this area of specialization is still not included in the curriculum of undergraduate programs; therefore, this course is aimed to help the graduate to learn the clinical skills needed to integrate oral implant as an option for the provision of restorative solutions for single or partial missing teeth. The training also helps the student to think critically and to make informed decisions from evidence-based research.

3. Eligibility for admission

Minimum qualification of B.D.S or equivalent from a recognized Institution in India or Overseas. Participants who have completed the Basic Implantology course, may

continue as a fellowship participants from the 2nd semester by paying an additional fee (Based on the availability of the seats)

4. Duration of the program

- 13 Months
- 2 Semesters of 6 and half months each
- The first semester will focus on training the participants in the basic skill in Implantology.
- The Second Semester will focus on imparting training at an advanced skill level.
- 50 hours of theory in each Semester.
- 10 hours of hands on training in each semester.
- One to one clinical training throughout the year.

5. Maximum Period for completion of the program

13 months

6. Aim of the program

Fellowship program is aimed at providing the dental practitioner a through, systematic and logical exposure to implant dentistry and to provide clinical knowledge and skills of the highest level.

7. Objective/Outcome of the program

- To provide the participants a through systematic and logical exposure to implant dentistry.
- To help the participants to effectively incorporate implant dentistry into their dental practice.
- Rational creation of overall treatment plans in relation to implant dentistry.
- To provide a program based on realities of private practice and not just theoretical aspects.
- To provide skill oriented interactive sessions on laboratory and surgical phases.

Program Outcomes

A student upon successfully qualifying and completing the Fellowship program in oral Implantology should have acquired both theoretical knowledge and clinical skill in the following competencies and must be able to:

- To diagnose and develop a treatment plan for complete and partially edentulous patients.
- To interpret imaging modalities such as CBCT and CT and use them for diagnosis, treatment planning and to measure treatment outcomes.
- To perform implant surgery and implant placement in simple and advanced classification cases; and additional soft and hard tissues surgical procedures related to implant dentistry.
- To Perform temporization procedures.
- Fabricate single implant restorations, multiple unit fixed restorations, fixed detachable restorations, and an implant supported overdenture.
- Diagnose the health of an existing implant fixture and restorations on follow up appointments and understand causes and treatment of peri implant disease and or implant failures.

8. Attendance

Must attend all the modules in both the semester and have a minimum of 80 % attendance in each semester.

9. Syllabus / Course contents

Online / Offline (Blended Learning)

ONLINE MODE: 1st Semester

A total of 35 online Learning modules and 35 online Assessment provided by the International teams for Implantology (ITI) Curriculum. The participants will be able to complete these modules and subsequent assessment at their own pace, within a period of 5 months.

1stSemester : Basic Level Implant Training

CO 1: Biology, Anatomy and Wound Healing in Implant Therapy

Course Specific Outcome:

1. Gain the foundation knowledge of bone biology, anatomy and wound healing that are the key determinants of predictable success in implant surgery
2. Learn the concept of osseointegration as it relates to biology, biomaterials and biocompatibility
3. Understand how the shape, surface geometry and connection interface effects wound healing

CO 2: Diagnosis, Treatment Planning andDocumentation

Course Specific Outcome:

1. Learn to accurately evaluate the potential implant patient
2. Learn the techniques to utilize photography to document and diagnose your patient as well as present treatment proposals.
3. Perform a comprehensive dental, hard and soft tissue examination, including the assessment of local bone deficiencies.
4. Acquire the knowledge to utilize CBCT to diagnose and virtually treatment plan your implant patient.
5. Learn how to set-up a successful treatment plan to meet your patient's objectives. (articulated study casts, wax ups, photos etc)
6. Understand how to avoid or minimize medico-legal dilemmas in your practice (Consent Form)

CO3: General Implant Surgical / Prosthetic Principals & Therapy

Course Specific Outcome:

1. Learn the surgical principles and instruments utilized in implant therapy
2. Learn flap design and management for conventional implant placement
3. Be able to utilize the different suturing techniques and materials necessary to manage implant surgery
4. Learn the restorative techniques and components to deliver a conventional fixed implant supported restorations
5. Learn the occlusal factors that have to be harmonized to achieve a successful and maintainable biomechanical restoration

CO4: Managing Emergencies, Complications & Long-term Maintenance in Implant Therapy

Course Specific Outcome:

1. Understand the Medical and Dental emergency protocols encountered in implant therapy
2. Gain the foundation knowledge in Dental Pharmacology
3. Learn to manage surgical and restorative complications in implant therapy
4. Learn to identify, prevent and manage peri-implantitis
5. Develop an understanding for developing a long-term maintenance program in your practice for the implant patient

2nd Semester Advance Level Implant Training

CO 5: Management of extraction Site in Implant Therapy

Course Specific Outcome:

1. Understand the biology and characteristics of the extraction site
2. Identify the key diagnostic criteria in treating the extraction site
3. Diagnostic tools: CT imaging, surgical guides
4. Minimally invasive techniques
5. Extraction site preservation and augmentation
6. Immediate vs. staged implant placement
7. Orthodontic therapy for site development
8. Influence of implant design and components on esthetic outcomes
9. Provisionalization technique
10. Restorative material selection

CO 6: Soft Tissue Management: Grafting,Mucogingival & Restorative Considerations

Course Specific Outcome:

1. Understand the biology of wound healing as it relates to surgical soft tissue manipulation

2. Learn how to treat muco-gingival defects around teeth and implants to gain attached tissue
3. Soft tissue augmentation around implants
4. Papilla preservation and regeneration around implants
5. Learn how to perform Stage 2 uncovering to optimize peri-implant tissue dimensions.

CO 7: The Posterior Maxilla in Implant Therapy

Course Specific Outcome:

1. Understand the surgical anatomy of the maxilla and sinus region
2. Gain insight in optimizing success in sinus augmentation
3. Learn an atraumatic technique for a crestal approach to sinus elevation
4. Learn to identify and manage complications related to sinus augmentation
5. Learn Alternative Therapies to Sinus Grafting for the deficient Posterior Maxilla

CO 8: Implants and the Fully Edentulous Patient

Course Specific Outcome:

1. Understand the surgical and restorative techniques necessary to manage the fully edentulous implant patient
2. Understand the Science and Clinical aspects of immediate functional loading
3. Learn about overdentures and hybrid prosthesis
4. Learn what is available in CAD/CAM technology and how to apply it to the fully edentulous patient
5. Understand the principles of All-on-Four and how to treatment plan appropriate cases

CO 9: Advanced Therapies, Bone Augmentation, Growth Factors & Bioengineering

Course Specific Outcome:

1. Learn the techniques available to manage narrow ridges
2. Understand the biology of bone as it relates to enhancement protocols
3. Learn how to design and manage flaps to achieve tension free closure of your surgical site

4. Learn how to augment bone vertically as well as horizontally
5. Gain insight in utilizing Titanium mesh and new bioactive modifiers to the healing sequence
6. Learn the characteristics of the different bone graft materials available
7. Learn alternatives to Bone Augmentation

10. Teaching - Learning methods course-wise

Includes Lectures (Online and Offline) / Hands on / Live Surgical Demonstrations / Clinical cases

11.Scheme of Examination

1st End Semester Examination:

Formative Assessment: Participant has to complete all the online assessments at the end of each learning module in the ITI Platform.

Summative assessment: will be conducted through the ITI Learning Management platform in the form of Multiple Choice questions.

Must have placed a minimum of 5 Implants under the guidance of the faculty and restored them and 5 Implants placed and restored independently.

2nd End Semester Examination

a. **Theory examination** (Essay and Short answers) -100 marks – 1 Day

Paper 1: Title: Implantology

Essay : 20 x 1 = 20 Short Answers: 10x8=80 Total = 100 marks

Syllabus for paper will include:
Basics science and applied anatomy
Diagnosis and treatment planning
Surgical protocols of Implantology including healing
Prosthodontic protocols of Implantology
Post treatment management in Implantology

b. **Practical Examination & Viva Voce** – 200 Marks – 1 Day

Diagnosis and treatment planning for 1 complex case with records -75 Marks
Case presentations – 25 Marks
Viva voce- 80 Marks
Clinical Log-Book Evaluation – 20 Marks

EXAMINERS: Professors who are actively involved in post graduate training program are eligible to conduct examination from any of the below mentioned specialities:

1 internal examiners :Oral & Maxillofacial surgeon/ Periodontist / Prosthodontist

1 External examiner: Oral & Maxillofacial surgeon/ Periodontist / Prosthodontist

12. Eligibility to appear for University Examination

Formative Assessment: Participant has to complete all the online assessments at the end of each learning module in the ITI Platform.
Summative assessment: will be conducted through the ITI Learning Management platform in the form of Multiple Choice questions.
Must have placed a minimum of 5 Implants under the guidance of the faculty and restored them and 5 Implants placed and restored independently.

13. Criteria for passing

The minimum number of marks required to pass the examination shall be fifty percent in each paper both in the (i) written with oral and (ii) practical parts of the examination. Candidates who obtain a minimum of seventy-five percent marks in any paper under examination and pass in all two subjects in the first attempt shall be declared to have passed with distinction.

14. Grading and Classification

50% and above –Pass
75% and above -Distinction

15. Declaration of Class

Candidates who obtain a minimum of 75% of the marks in any paper under examination shall be declared to have passed with distinction in that particular subject provided he/she passes all subjects of examination in the first attempt.

16. Logbook/Portfolio (NA)

17. Recommended books (In Vancouver style)

1. Schroeder Andre - Oral Implantology, published in 1996, 2nd Edition
2. Christoph T Sliwowski - Implantology step by step, published in 2015, 2nd Edition
3. Cranin A Nornan – Atlas of Oral Implantology, published in 1999, 2nd Edition
4. Ajay Vikram Singh - Clinical Implantology, published in 2013, 1st Edition

5. Fedrico Hernandez Alfaro - Bone grafting in Oral Implantology, published in 2006, 1st Edition
6. Philippe B Tardieu- Art of Computer guided Implantology, published in 2001, 1st Edition
7. Louie Al Faraji- Surgical and Radiologic Anatomy for Oral Implantology – published in 2013, 1st Edition
8. Louie Al Faraji – Surgical complications in Oral Implantology Etiology prevention and Management, published in 2011, 1st Edition

18. Journals (In Vancouver style) - Nil

19. Any other information (Program paths and exit options, Semesters and breaks, Progression and Carryover, etc.) - Nil

20. Annexures - NA