



# ST.GREGORIOS DENTAL COLLEGE

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA - 686681  
(AFFILIATED TO KERALA UNIVERSITY OF HEALTH SCIENCES)

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## EARLY CLINICAL EXPOSURE

From

Convenor

Dental Education Unit

St.Gregorios Dental College, Chelad

To

The Principal

St.Gregorios Dental College, Chelad

Subject: Request letter for conducting EARLY CLINICAL EXPOSURE certificate program for Second Year students.

Respected Sir

We are planning to conduct an EARLY CLINICAL EXPOSURE add on course for Second Year students every Mondays for 10 weeks, from 26.09.2022. Details of the program are enclosed here for your reference.

Requesting you to kindly give us permission and guide us to conduct the program.

Thanking you,

Yours sincerely,



Dr. Allu Baby

Convenor

Dental Education Unit

**ST. GREGORIOS DENTAL COLLEGE**

**CHELAD, KOTHAMANGALAM**

SGDC/ADD/006/2022

22/09/2022

**CIRCULAR**

Subject: Certificate course on 'Early Clinical Exposure' for Second Year students.

This is to inform you that an 'Early Clinical Exposure' add on course for Second Year students is being organised by the Dental Education Unit every Mondays for 10 weeks, from 26.09.2022.

For further reference reach out to Dr. Allu Baby.



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St. Gregorios Dental College  
Chelad, Kothamangalam - 686 031



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## **DENTAL EDUCATION UNIT**

### **EARLY CLINICAL EXPOSURE**

Venue: St. Gregorios Dental College

Date/time: From 26.09.2022

#### **Course syllabus:**

Early Clinical Exposure for Second Year BDS Students

#### **Preamble:**

In response to the changing needs of second-year BDS students, we are introducing an enriching add-on course designed to complement their academic journey. The course will start with some introductory classes, where an overview of advanced topics in dentistry will be provided to prepare students for specialized areas of study. Thereafter, students will be sent for postings in different dental departments, where they would get hands-on experience under the able and constant guidance of faculty and senior students. This is a groundbreaking step toward growing a well-rounded skill set that is sure to equip students with the necessary expertise and confidence for their future dental practice.

#### **Rationale of the course:**

The rationale for running this course has been identified from the vital need to enhance the learning experience of students at the second year of BDS. As they advance further in the Dental course, it will be imperative to expose them to various forms of clinical setups and a large number of specialist areas in dentistry.

#### **Aim:**

It aims to expose second-year BDS students to a rounded educational experience that amalgamates theoretical learning with practical application in various dental specialties

#### **Eligible participants:**

Second Year students

**Course duration:** Total 40 hours

**Mode of delivery:** Offline mode

**Course coordinator:** Dr. Allu Baby

**Course Faculty:** Dr. Anila S. and faculties from various departments



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## COURSE SCHEDULE

**DAY 1: 26/09/2022**

<b>MODULE 1 UNDERSTANDING DENTAL CLINIC OPERATIONS</b>		
Overview of Various Dental Specialties	Dr. Anila S	8.30am -9.00am
Introduction to essential equipment and instruments	Dr. Anila S	9.00am-9.30am
Basic principles of infection control and sterilization	Dr. Anila S	9.30am-10.00am

<b>MODULE 2 PATIENT MANAGEMENT IN DENTAL SETTINGS</b>		
Effective communication skills with patients	Dr. Anila S	10.30am - 11.00am
Handling patient records and documentation	Dr. Anila S	11.00am- 11.30am

<b>MODULE 3 INTRODUCTION TO DENTAL PROCEDURES</b>		
Overview of common dental treatments and procedures	Dr. Anila S	11.30am - 12.00pm
Understanding dental terminology and procedures terminology	Dr. Anila S	12.00pm- 12.30pm



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## DAY 2: 03/10/2022

<b>MODULE 4 DENTAL MATERIALS AND EQUIPMENT</b>		
Introduction to dental materials used in restorative procedures	Dr. Anila S	8:30am-9:30am
Overview of dental equipment and their functions	Dr. Anila S	9.30am-10.00am
Understanding the importance of equipment maintenance and safety protocols	Dr. Anila S	10.00am-10.30am

<b>MODULE 5 PRACTICE MANAGEMENT AND ETHICAL CONSIDERATIONS</b>		
Basics of dental practice management	Dr. Anila S	11.00am - 11.30am
Ethical considerations and professional responsibilities in dental practice	Dr. Anila S	11.30am-12.00pm
Introduction to legal aspects and regulations	Dr. Anila S	12.00pm-12.30pm

**DAY 3: 10/10/2022** – Rotatory Clinical Posting [10:00am – 2:00pm]

**DAY 4: 17/10/2022**– Rotatory Clinical Posting [10:00am – 2:00pm]

**DAY 5: 24/10/2022**– Rotatory Clinical Posting [10:00am – 2:00pm]

**DAY 6: 31/10/2022**– Rotatory Clinical Posting [10:00am – 2:00pm]

**DAY 7: 07/11/2022**– Rotatory Clinical Posting [10:00am – 2:00pm]

**DAY 8: 14/11/2022**– Rotatory Clinical Posting [10:00am – 2:00pm]

**DAY 9: 21/11/2022**– Rotatory Clinical Posting [10:00am – 2:00pm]

**DAY 10: 28/11/2022**– Rotatory Clinical Posting [10:00am – 2:00pm]



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## **POST EVENT REPORT**

'Early Clinical Exposure' Course conducted at St. Gregorios Dental College from September 26<sup>th</sup> to November 28<sup>th</sup>, 2022, was designed to provide BDS second-year students with practical exposure and experience in the various clinical departments within dentistry. It was a well-structured tour to different clinical departments in which the students observed and participated in the care of patients under the supervision of experienced faculty. The course was attended by the Second Year students of St. Gregorios Dental College. The program consisted of scheduled visits to different clinical departments. Students saw procedures, interacted with patients, and had faculty guidance. Reflection sessions facilitated discussion and feedback, enriching students' clinical understanding and developing skills in various aspects of dental practice. Students gave good feedback and said it was great to know what the different specialties were like. They said that it was a very valued addition to their clinical competence and confidence in the care of patients.



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## **FEEDBACK FORM**

- 1. How would you rate your overall experience with the Early Clinical Exposure Program?**
  - Excellent
  - Good
  - Average
  - Below Average
  - Poor
- 2. What aspects of the program did you find most valuable?**
  - Structured Department Visits
  - Observation Opportunities
  - Faculty Guidance
  - Reflection Sessions
- 3. Were there any specific clinical departments or experiences that stood out to you? If yes, please specify.**
- 4. How did the program contribute to your understanding of clinical dentistry and patient care?**
  - Increased Understanding of Procedures
  - Enhanced Patient Interaction Skills
  - Improved Clinical Decision-making Abilities
- 5. Did the program meet your expectations? Please elaborate.**
  - Yes
  - No
- 6. Do you have any suggestions for improving future iterations of the Early Clinical Exposure Program?**
- 7. How would you rate the faculty's involvement and guidance during the program?**
  - Excellent
  - Good
  - Average
  - Below Average
  - Poor
- 8. Would you recommend the Early Clinical Exposure Program to other students? Why or why not?**
  - Yes
  - No





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## 9. Any additional comments or feedback you would like to provide?

### Participant Information (Optional):

- **Name (Optional):**
- **Email (Optional):**

Thank you for your participation and valuable feedback! Your input will help us enhance future educational offerings. Please return the completed form to Dr. Allu Baby.



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## **FEEDBACK ANALYSIS**

Students had positive comments about the program, adding that they gained valuable insight into the different specialties. They said it had enhanced their clinical competencies and confidence in patient care. Among the recommendations were more time to be spent within the departments and more interactive learning.



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## ASSIGNMENT

### **1. What is the purpose of a dental examination?**

- A) To perform a cleaning
- B) To diagnose dental issues
- C) To extract teeth
- D) To administer fluoride treatment

### **2. What is the first step in a dental restoration procedure?**

- A) Applying anesthesia
- B) Drilling out decay
- C) Taking dental impressions
- D) Placing the final restoration

### **3. What is the purpose of dental radiographs (X-rays)?**

- A) To clean teeth
- B) To diagnose dental problems not visible to the naked eye
- C) To whiten teeth
- D) To extract teeth

### **4. What is the correct sequence for a basic dental cleaning?**

- A) Scaling, polishing, fluoride treatment
- B) Polishing, scaling, fluoride treatment
- C) Fluoride treatment, scaling, polishing
- D) Polishing, fluoride treatment, scaling

### **5. What is the purpose of dental anesthesia?**

- A) To numb the patient's mouth
- B) To clean teeth
- C) To whiten teeth
- D) To diagnose dental problems

### **6. What is the purpose of dental prophylaxis?**

- A) To extract teeth
- B) To diagnose dental problems
- C) To remove plaque and tartar buildup
- D) To administer fluoride treatment



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**7. What is the function of dental floss in oral hygiene?**

- A) To brush teeth
- B) To remove plaque and food particles from between teeth
- C) To apply fluoride
- D) To diagnose dental problems

**8. Which dental specialty focuses on the treatment of diseases affecting the dental pulp?**

- A) Periodontics
- B) Orthodontics
- C) Endodontics
- D) Prosthodontics

**9. What is the purpose of a dental sealant?**

- A) To whiten teeth
- B) To extract teeth
- C) To prevent tooth decay
- D) To administer fluoride treatment

**10. What is the recommended frequency for replacing a toothbrush?**

- A) Every 6 months
- B) Once a year
- C) Every 3 months
- D) Only when the bristles become visibly worn



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## **Answer key:**

1. B) To diagnose dental issues
2. B) Drilling out decay
3. B) To diagnose dental problems not visible to the naked eye
4. A) Scaling, polishing, fluoride treatment
5. A) To numb the patient's mouth
6. C) To remove plaque and tartar buildup
7. B) To remove plaque and food particles from between teeth
8. C) Endodontics
9. C) To prevent tooth decay
10. C) Every 3 months



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## ATTENDANCE LIST



### ST. GREGORIOS DENTAL COLLEGE, CHELAD

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA - 686681

TOPIC: ADD ON COURSE - EARLY CLINICAL EXPOSURE (2022)

Sl no.	Name of participant	Signature
1.	Abinaya. K.A.	
2.	ANJITHA. K. VIJAY.	
3.	Amel Rachel Joy	
4.	Arsha K.A.	
5.	Gopika sm.	
6.	HEPMZIBA.	
7.	Thidya Kurahon.	
8.	JINI JIJU	
9.	Krishna Prakash.	
10.	Lijn Muni Paul.	
11.	Maria M. Raju.	
12.	Uthra	
13.	MERIN ROSE	
14.	Merin Xavier.	
15.	MIRWA T.P.	
16.	Nithya A.	
17.	Rinlu Smit.	
18.	Sayishu susi	
19.	SANDRA MARIAM.	
20.	Sandra Susan.	
21.	SARAMATHEW	
22.	FARNANA	
23.	Sneha N.S.	
24.	SNIGDHA JAYARAJ.	
25.	Sreelakshmi	

PRINCIPAL	DEU Convenor	DEU Secretary











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## ST. GREGORIOS DENTAL COLLEGE Register of Attendance for CHELAD, KOTHAMANGALAM

the month of November.....2022..

Sl. No.	Name	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	No. of Working Days	No. of Days present	Attendance Percentage	Total No. of Working days upto date	No. of days present upto date	Remarks				
1	Abhinaya K.A.																																										
2	Akshitha R. Vijay																																										
3	Anant Rajesh Jy																																										
4	Arsha K.A.																																										
5	Gayika S.M.																																										
6	Hephziba Tom																																										
7	Haidya Kuziakose																																										
8	Jini Jiji																																										
9	Krishna Prakash																																										
10	Liya Mevin Paul																																										
11	Maria M. Paju																																										
12	Mehar Jan Shaw																																										
13	Mevin Rose M.T.																																										
14	Mevin Xavier																																										
15	Mirwa T.P.																																										
16	Nikma A.																																										
17	Rindu Sunil																																										
18	Sajeetha Sasi																																										
19	Sandra Marian Thomas																																										
20	Sandra Susan Sejan																																										
21	Sara Mathew																																										
22	S. Farhana																																										
23	Sneha N.S.																																										
24	Singitha Jayaraj																																										
25	Sreelakshmi																																										
26	Sreemol C.P.																																										
27	Vaishnavi S.																																										
28	Riya Elizabeth Shashi																																										
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## BROCHURE

**ST. GREGORIOS  
DENTAL COLLEGE**  
CHELAD

# EARLY CLINICAL EXPOSURE

**ADD-ON  
COURSE**

**26  
JAN 2023  
ONWARDS**

**SECOND YEAR BDS  
STUDENTS**

**10 SESSIONS**

organized by  
DENTAL EDUCATION UNIT  
INTERNAL QUALITY ASSURANCE CELL



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## CERTIFICATE



**ST. GREGORIOS DENTAL COLLEGE**

CHELAD

Dental Education Unit

**EARLY CLINICAL EXPOSURE**

Certificate of Merit

This certificate is presented to

ABHINAYA KA

for successfully completing 30 hours of the add-on course entitled  
EARLY CLINICAL EXPOSURE from 26.07.2022 to 26.07.2022 conducted  
by the Dental Education Unit.

**Prof. Dr. Jain Mathew**  
Principal

**Dr. Allu Baby**  
DEU Convener



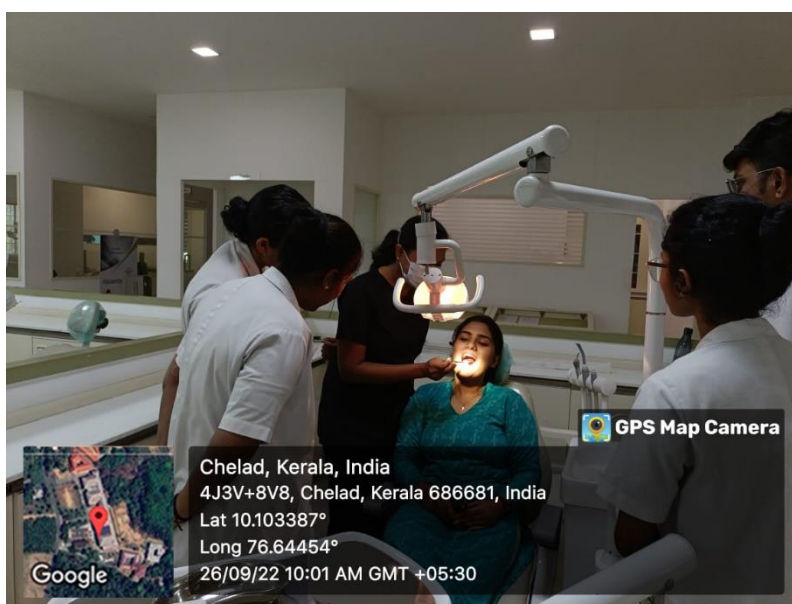
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## PHOTOS



PHOTOGRAPHS OF ADD-ON COURSE- 'EARLY CLINICAL EXPOSURE'



# ST.GREGORIOS DENTAL COLLEGE

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## **ADD ON COURSE- PEDODONTICS**

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Phone : 0485-2572531, 532, 9188952016, 9188952017

Email : [sgdc@rediffmail.com](mailto:sgdc@rediffmail.com), Web : [sgdc.ac.in](http://sgdc.ac.in)

From  
Head of the Department  
Department of Pediatric and Preventive Dentistry  
St.Gregorios Dental College, Chelad

To  
The Principal  
St.Gregorios Dental College, Chelad

Subject; Request letter for conducting 'ADD ON COURSE- PEDODONTICS'  
certificate program for Final year Part 1 students.

Respected Sir,

We are planning to conduct an add on course Final year Part 1 students entitled 'ADD ON COURSE- PEDODONTICS' from 16.11.2022-19.11.2022 in the Final Year Classroom. Details of the program are enclosed here for your reference.  
Requesting you to kindly give us permission and guide us to conduct the program.

Thanking you,  
Yours sincerely,



Dr. Eldho Babu  
Head of Department  
Department of Pediatric and Preventive Dentistry

**ST. GREGORIOS DENTAL COLLEGE**

**CHELAD, KOTHAMANGALAM**

SGDC/ADD/007/2022

14/11/2022

**CIRCULAR**

Subject: Certificate course on 'Add On Course- Pedodontics' for Final year Part 1 students.

This is to inform you that an add on course for Final year Part 1 students is being organized by the Dental Education Unit and the Department of Pediatric and Preventive Dentistry on the title 'ADD ON COURSE- PEDODONTICS' from 16.11.2022 - 19.11.2022.

For further reference reach out to Dr. Lynette Beena Mathai.



**PRINCIPAL**

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St. Gregorios Dental College  
Chelad, Kerala - 686 681

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## **DEU AND DEPARTMENT OF PEDIATRIC AND PREVENTIVE DENTISTRY**

### **ADD ON COURSE- PEDODONTICS**

Date/time: 16.11.2022 - 19.11.2022

#### **Course syllabus:**

Add-on course- Pedodontics:

- Importance of Pre-natal Counselling
- Pediatric Immunization
- Special Health Care Needs
- Anticipatory Guidance in Pediatric Oral Health

#### **Preamble:**

This enriching add-on course offers thorough insights into important areas of pediatric oral health, in response to the changing requirements and problems in pediatric dentistry. The goal of this specialized programme is to give dental practitioners the information and abilities they need to successfully handle the particular dental care needs of children. This course presents a comprehensive approach to pediatric dentistry, covering topics such as the significance of prenatal counselling, pediatric immunization, unique health care needs, and anticipatory guidance in pediatric oral health. By means of an amalgamation of theoretical doctrines, pragmatic implementations, and case studies, the attendees will acquire an enhanced comprehension of the diverse facets associated with pediatric oral healthcare.

#### **Rationale of the course:**

Pediatric dentistry offers special chances and challenges that need for certain knowledge and abilities. The introduction of this supplemental course was justified by the realization that early dental care plays a pivotal role in establishing enduring oral health habits and averting dental issues.

#### **Aim:**

The purpose of this pediatric dentistry add-on course is to give dental practitioners the specific information and abilities they need to treat young patients with complete care. The training aims to improve practitioners' capacity to support early intervention, preventive care, and optimal oral health outcomes in children by emphasizing subjects including pediatric immunization, unique health care needs, and anticipatory guidance in pediatric oral health.



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**Eligible participants:**Final year Part 1 students

**Course duration:** Total 32 hours

**Mode of delivery:** Offline mode

**Course coordinator:** Dr. Lynette Beena Mathai

**Course Faculty:** Dr. Lisa Thomas and faculty from the Department of Pediatric and Preventive Dentistry



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## COURSE SCHEDULE

**DAY 1: 16/11/2022**

### **I. IMPORTANCE OF PRE-NATAL COUNSELLING**

Speaker: Dr. Lisa Thomas

TIME	ACTIVITY
9:00am - 9:30am	Welcome Address
9:30am - 10:30am	<b>Session 1:</b> Introduction to Pre-natal Counseling
10:30am - 10:45am	Break
10:45am - 12:15pm	<b>Session 2:</b> Factors Influencing Pre-natal Dental Health
12:15pm - 1:15pm	Lunch Break
1:15pm - 2:45pm	<b>Session 3:</b> Strategies for Pre-natal Counseling
2:45pm - 3:00pm	Break
3:00pm - 4:30pm	<b>Session 4:</b> Case Studies and Practical Applications
4:30pm - 5:00pm	Q&A Session and Closing Remarks

#### **Session Details:**

**1. Overview of Prenatal Counselling:** This section provides an overview of the significance of prenatal counselling in pediatric dentistry, as well as its effects on the dental health of both the mother and the fetus.

**2. Factors Affecting Prenatal Dental Health:** A discussion of the different factors that affect prenatal dental health, including systemic diseases, oral hygiene habits, and maternal diet.

**3. Prenatal Counselling Techniques:** Useful methods and dialogue techniques for educating expecting women about disease prevention and dental health promotion.

**4. Case Studies and Real-World Uses:** Engaging session that uses role-playing games and case studies to illustrate counselling strategies and reinforce important ideas.



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**DAY 2: 17/11/2022**

## **II. PEDIATRIC IMMUNIZATION**

Speaker: Dr. Lisa Thomas

TIME	ACTIVITY
9:00am - 10:30am	<b>Session 1:</b> Introduction to Pediatric Immunization
10:30am - 10:45am	Break
10:45am - 12:15pm	<b>Session 2:</b> Vaccine-Preventable Diseases and Oral Health
12:15pm - 1:15pm	Break
1:15pm - 2:45pm	<b>Session 3:</b> Immunization Schedule and Guidelines
2:45pm - 3:00pm	Break
3:00pm - 4:30pm	<b>Session 4:</b> Oral Health Considerations for Immunocompromised Patients
4:30pm - 5:00pm	Q&A Session and Closing Remarks

### **Session Details:**

- 1. Introduction to Pediatric Immunization:** A summary of the role that childhood vaccination plays in avoiding diseases that can be prevented by vaccines and in enhancing general health.
- 2. Vaccine-Preventable diseases and oral health:** This section discusses common diseases that can be prevented by vaccination and how they may affect the mouth, with a focus on the importance of vaccination for oral health.
- 3. Immunization Schedule and Guidelines:** A thorough analysis of the suggested immunization schedule and guidelines, together with updates on current events, is conducted for pediatric patients.
- 4. Oral Health Considerations for Immunocompromised Patients:** This section examines oral health issues and care plans for pediatric immunocompromised patients, emphasizing the value of interdisciplinary teamwork.



# ST.GREGORIOS DENTAL COLLEGE

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

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(AFFILIATED TO KERALA UNIVERSITY OF HEALTH SCIENCES)

**DAY 3: 18/11/2022**

## **III. SPECIAL HEALTH CARE NEEDS**

Speaker: Dr. Eldho Babu

TIME	ACTIVITY
9:00am- 10:30am	<b>Session 1:</b> Understanding Special Health Care Needs in Pediatric Dentistry
10:30am - 10:45am	Break
10:45am - 12:15pm	<b>Session 2:</b> Common Special Health Care Needs in Pediatric Patients
12:15pm - 1:15pm	Break
1:15pm - 2:45pm	<b>Session 3:</b> Multidisciplinary Approach to Dental Care for Special Needs Patients
2:45pm - 3:00pm	Break
3:00pm - 4:30pm	<b>Session 4:</b> Practical Strategies for Providing Dental Care to Special Needs Patients
4:30pm - 5:00pm	Q&A Session and Closing Remarks

### **Session Details:**

- 1. Understanding Special Health Care requirements in Paediatric Dentistry:** An overview of the particular difficulties and factors that must be taken into account while treating patients who have special health care requirements.
- 2. Common Special Health Care Needs in Paediatric Patients:** An overview of common ailments, including medical complexity, intellectual disability, and autism spectrum disorder, and how these affect dental care.
- 3. An interdisciplinary approach to providing dental care to patients with special needs:** Examining the significance of working together with other medical professionals and specialists to provide patients with special needs complete care.
- 4. Realistic Approaches to Giving Dental Care to Patients with Special Needs:** Useful tidbits and methods for successful behaviour control, treatment planning, and communication with patients with special needs in the dental office.



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**DAY 4: 19/11/2022**

## **IV. ANTICIPATORY GUIDANCE IN PEDIATRIC ORAL HEALTH**

Speaker: Dr. Lisa Thomas

TIME	ACTIVITY
9:00am - 10:30am	<b>Session 1:</b> Introduction to Anticipatory Guidance in Pediatric Oral Health
10:30am - 10:45am	Break
10:45am - 12:15pm	<b>Session 2:</b> Age-Appropriate Oral Health Education and Promotion
12:15pm - 1:15pm	Break
1:15pm - 2:45pm	<b>Session 3:</b> Preventive Strategies and Practices for Pediatric Patients
2:45pm - 3:00pm	Break
3:00pm - 4:30pm	<b>Session 4:</b> Parental Education and Involvement in Pediatric Oral Health
4:30pm - 5:00pm	Q&A Session and Closing Remarks

### **Session Details:**

- 1. Introduction to Anticipatory Guidance in Pediatric Oral Health:** Overview of anticipatory guidance principles and their importance in promoting preventive oral health behaviors from infancy through adolescence.
- 2. Age-Appropriate Oral Health Education and Promotion:** Discussion on strategies for delivering oral health education tailored to the developmental stages and needs of pediatric patients.
- 3. Preventive Strategies and Practices for Pediatric Patients:** Examination of preventive measures such as fluoride therapy, dental sealants, and dietary counseling to mitigate the risk of dental caries and other oral health issues.
- 4. Parental Education and Involvement in Pediatric Oral Health:** Exploration of the role of parents and caregivers in promoting good oral hygiene habits, dietary habits, and regular dental visits for their children.



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## **POST EVENT REPORT**

The Dental Education Unit and the Department of Pediatric and Preventive Dentistry at St. Gregorios Dental College organized a successful four-day Pedodontic Add-On Programme from November 16th to November 19th, 2022, headed by Dr. Lisa Thomas. It was meant to increase the knowledge and clinical skills of final-year Part 1 students in pediatric dentistry. Most importantly, the lecture by Dr. Eldho Babu, the Head of the Pediatric Dentistry department, provided valuable exposure to modern-day practice. Each day of the program was earmarked for a different lecture, which included the Importance of Pre-natal Counseling, Pediatric Immunization, the handling of Special Health Care Needs, and Anticipatory Guidance in Pediatric Oral Health. The programme was well appreciated for the topics it covered and was found to be of great importance in improving the knowledge and skills of the participants. The responses highlighted the need to conduct more such advanced-level programs in the future for further sharpening of skills in pediatric dentistry.



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## FEEDBACK FORM

### 1. Overall Satisfaction:

- Very Satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very Dissatisfied

### 2. Relevance of Topics Covered:

- Highly Relevant
- Somewhat Relevant
- Neutral
- Not Very Relevant
- Irrelevant

### 3. Quality of Presentations and Lectures:

- Excellent
- Good
- Average
- Poor
- Very Poor

### 4. Engagement and Interactivity:

- Very Engaging
- Engaging
- Neutral
- Not Very Engaging
- Boring





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**5. Guest Lecture by Dr. Eldho Babu:**

- Excellent
- Good
- Average
- Poor
- Very Poor

**6. Organization and Logistics:**

- Very Well Organized
- Well Organized
- Neutral
- Poorly Organized
- Very Poorly Organized

**7. Facilitators' Expertise and Knowledge:**

- Excellent
- Good
- Average
- Poor
- Very Poor

**8. Suggestions for Improvement:**

**9. Additional Comments or Feedback:**

**10. Participant Information (Optional):**

**Name:**

**Email:**

Thank you for your participation and valuable feedback! Your input will help us enhance Future educational offerings. Please return the completed form to Dr. Lynette Beena Mathai.



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## **FEEDBACK ANALYSIS**

Participants praised the comprehensive coverage and expertise of facilitators in the Pedodontic Add-On Program. Moreover, the program's organization received commendation, ensuring smooth transitions between sessions. However, some suggested improving interactivity and providing more hands-on opportunities. Additionally, clearer communication about the schedule and session objectives would enhance the overall experience. Despite these suggestions, participants expressed overall satisfaction and a desire for similar programs in the future.



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## ASSIGNMENT

- 1. What is the primary focus of pediatric dentistry?**
  - a) Dental implants
  - b) Oral health care for children
  - c) Orthodontic treatment for adults
  - d) Cosmetic dentistry
- 2. At what age should a child's first dental visit typically occur?**
  - a) 3 years old
  - b) 2 years old
  - c) 1 year old
  - d) 6 years old
- 3. Which of the following is a common preventive measure in pediatric dentistry?**
  - a) Tooth extraction
  - b) Dental sealants
  - c) Teeth whitening
  - d) Root canal treatment
- 4. What is the purpose of anticipatory guidance in pediatric oral health?**
  - a) To treat existing dental problems
  - b) To prevent future dental issues
  - c) To perform dental surgeries
  - d) To diagnose oral diseases
- 5. Which of the following is NOT a special health care need in pediatric dentistry?**
  - a) Autism spectrum disorder
  - b) Down syndrome
  - c) Dental anxiety
  - d) Cleft lip and palate
- 6. What is the recommended age for pediatric immunizations to start?**
  - a) 6 months old
  - b) 1 year old
  - c) 2 years old
  - d) 5 years old



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- 7. What is the importance of pre-natal counseling in pediatric dentistry?**
  - a) To educate parents about dental implants
  - b) To promote oral health during pregnancy
  - c) To discuss orthodontic treatment options
  - d) To perform dental cleanings for pregnant women
- 8. Which of the following topics is NOT typically covered in pediatric dentistry?**
  - a) Preventive dentistry
  - b) Oral surgery
  - c) Behavioral management
  - d) Geriatric dentistry
- 9. What is the role of fluoride therapy in pediatric dentistry?**
  - a) To remove dental plaque
  - b) To prevent tooth decay
  - c) To whiten teeth
  - d) To straighten teeth
- 10. What is the goal of behavior management techniques in pediatric dentistry?**
  - a) To cause fear in children
  - b) To establish trust and cooperation
  - c) To increase dental phobia
  - d) To ignore children's concerns



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## **Answer key:**

1. b) Oral health care for children
2. c) 1 year old
3. b) Dental sealants
4. b) To prevent future dental issues
5. c) Dental anxiety
6. a) 6 months old
7. b) To promote oral health during pregnancy
8. d) Geriatric dentistry
9. b) To prevent tooth decay
10. b) To establish trust and cooperation



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## BROCHURE



ST. GREGORIOS DENTAL COLLEGE  
CHELAD

# Add on PEDODONTICS

Importance of  
Prenatal Counselling



Pediatric  
Immunisation



Special health  
Care Needs  
Anticipatory Guidance



**DR LISA THOMAS**  
SPEAKER



16-19 NOVEMBER 2022  
08 AM - 04 PM



COLLEGE  
AUDITORIUM

ADD-ON  
COURSE

ORGANIZED BY

DEPT. OF PEDODONTICS | DENTAL EDUCATION UNIT

Phone : 0485-2572531, 532, 9188952016, 9188952017

Email : [sgdc@rediffmail.com](mailto:sgdc@rediffmail.com), Web : [sgdc.ac.in](http://sgdc.ac.in)



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## PARTICIPANTS LIST



### ST. GREGORIOS DENTAL COLLEGE, CHELAD

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA- 686681

TOPIC: ADD ON - PEDODONTICS  
16/11/22 - 19/11/22

Sl no.	Name of participant	Day 1	Day 2	Day 3	Day 4
	AMAL	A	A	A	A
	Malavika Dasigan	Malavika	Malavika	Malavika	Malavika
	Ramani	Ramani	Ramani	Ramani	Ramani
	Jetsoy	Jetsoy	Jetsoy	Jetsoy	Jetsoy
	MAYA ABRAHAM	MAYA	MAYA	MAYA	MAYA
	Nalcul. P.G	Nalcul	Nalcul	Nalcul	Nalcul
	Elma	Elma	Elma	Elma	Elma
	DONA	DONA	DONA	DONA	DONA
	Cicitta Moolan	Cicitta	Cicitta	Cicitta	Cicitta
	Angela	Angela	Angela	Angela	Angela
	Edha	Edha	Edha	Edha	Edha
	ANCHEL JOSE	Anchel	Anchel	Anchel	Anchel
	Maniya Reji	Maniya	Maniya	Maniya	Maniya
	Harey Laya	Harey	Harey	Harey	Harey
	ANJANA	Anjana	Anjana	Anjana	Anjana
	Sauhi Saji	Sauhi	Sauhi	Sauhi	Sauhi
	Kerica	Kerica	Kerica	Kerica	Kerica
	Sauhi V S	Sauhi	Sauhi	Sauhi	Sauhi
	Maniya George	Maniya	Maniya	Maniya	Maniya
	Sirabhi	Sirabhi	Sirabhi	Sirabhi	Sirabhi
	VIDHYA	Vidhya	Vidhya	Vidhya	Vidhya

PRINCIPAL	DEU Convener	DEU Secretary



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## CERTIFICATE

**ST. GREGORIOS DENTAL COLLEGE**  
CHELAD

Dental Education Unit  
&  
Department of Pediatric and Preventive Dentistry

**ADD ON COURSE - PEDODONTICS**

**CERTIFICATE OF MERIT**

This award is given to

*Snabhi. S*

for successfully completing 30 hours add-on course on Pedodontics from ..14..11..22.. to ..19..11..22..  
conducted jointly by the Dental Education Unit and the Department of Pediatric and Preventive Dentistry.



*[Signature]*

Prof. Dr. Jino Mathew  
HEAD OF DEPARTMENT

Dr. Alha Babu  
HEAD OF DEPARTMENT

*[Signature]*

Dr. Fathima Bhanu  
HEAD OF DEPARTMENT





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## PHOTOS



PHOTOGRAPHS OF ADD ON COURSE- 'ADD-ON PEDODONTICS'

Phone : 0485-2572531, 532, 9188952016, 9188952017

Email : sgdc@rediffmail.com, Web : sgdc.ac.in



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## **DIODE LASER: CLINICAL APPLICATION IN** **DENTISTRY**

From  
Head of the Department  
Department of Periodontics  
St. Gregorios Dental College, Chelad

To  
The Principal  
St. Gregorios Dental College, Chelad

Subject: Request letter for conducting DIODE LASER: CLINICAL APPLICATION IN DENTISTRY certificate program for final year Part 2 students and interns.

Respected Sir,

We are planning to conduct an add on course for final year part 2 students and interns on the topic entitled DIODE LASER: CLINICAL APPLICATION IN DENTISTRY on 31.01.2023 - 31.05.2023 in the college auditorium. Details of the program are enclosed here for your reference.

Requesting you to kindly give us permission and guide us to conduct the program.

Thanking you,  
Yours sincerely,



Dr. Anila S  
Head of the Department  
Department of Periodontics

**ST. GREGORIOS DENTAL COLLEGE**  
**CHELAD, KOTHAMANGALAM**

SGDC/ADD/001/2023

28/01/2023

**CIRCULAR**

Subject: Certificate course on Diode Laser: Clinical Application in Dentistry for Final year Part 2 students and interns.

This is to inform you that an add on course for Final Year Part 2 students and interns is being organised by the Department of Periodontics on topic Entitled Diode Laser: Clinical Application In Dentistry from 31.01.2023 - 31.05.2023 in the college auditorium

For further reference reach out to Dr. Annie V Issac



**PRINCIPAL**

PRINCIPAL  
St. Gregorios Dental College  
Chelad, Kerala - 686 681

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Office

All departments

Library





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## DEPARTMENT OF PERIODONTICS

### DIODE LASER CLINICAL APPLICATION IN DENTISTRY

Venue: St. Gregorios Dental College

Date/time: 31.01.2023 - 31.05.2023

#### **Course syllabus:**

DIODE LASER: CLINICAL APPLICATION IN DENTISTRY

#### **Preamble:**

This extensive curriculum is designed for students and interns who want to increase their proficiency with diode lasers in a variety of clinical settings. With the goal of providing participants with a thorough understanding of diode laser technology and its applications, knowledgeable instructors will guide them on their journey. Attendees will learn about laser safety procedures, examine the fundamentals of diode laser operation, and practise clinical skills through interactive workshops. This training, which emphasises evidence-based methods, attempts to provide participants the skills and assurance they need to successfully incorporate diode lasers into their regular work, improving patient care and practice productivity.

#### **Rationale of the course:**

The "Diode Laser - Clinical Applications in Dentistry" course was created because of the revolutionary effect that diode lasers have had on contemporary dentistry. Dental practitioners can perform a range of therapeutic operations, such as soft tissue management, periodontal therapy, and cosmetic modifications, with greater accuracy and reduced invasiveness when using diode lasers. Nevertheless, even with its established advantages, many dentists might not have the thorough understanding and hands-on experience necessary to use diode lasers efficiently. By giving participants a thorough understanding and practical experience with diode laser technology and its therapeutic applications, this course seeks to close that knowledge gap.

#### **Aim:**

The goal of the course "Diode Laser - Clinical Applications in Dentistry" is to give dental professionals the thorough information and hands-on experience they need to use diode lasers safely and efficiently in a variety of clinical settings, improving patient care and office productivity.

**Eligible participants:** Final year Part 2 students and interns

**Course duration:** Total 30 hours

**Mode of delivery:** Offline mode

**Course coordinator:** Dr. Annie V Issac

**Course faculty:** Dr. Madhu, Dr. Manjusha Nambiar, Dr. Robin, Dr. Eldho.



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## COURSE SCHEDULE

### DAY 1: 31/01/2023

<b>MODULE 1: INRODUCTION TO DIODE LASERS</b>		
History and Evolution	Dr Madhu	8:00am – 9:00am
Principles of Diode Laser Technology	Dr Madhu	9:00am – 10:00am
Wavelength Characteristic	Dr Madhu	10:00am – 10:30am

<b>MODULE 2: LASER SAFETY AND REGULATIONS</b>		
Laser Safety Standards	Dr Madhu	10:30am – 11:00am
Personal Protective Equipment (PPE)	Dr Madhu	11:00am – 11:30am
Regulatory Compliance	Dr Madhu	11:30am – 12:00pm

<b>MODULE 3: TISSUE INTERACTIONS OF DIODE LASERS</b>		
Absorption and Penetration Depths	Dr Madhu	12:00 – 12:30pm
Thermal Effects on Soft Tissue	Dr Madhu	12:30 – 1:30pm
Hemostasis and Coagulation	Dr Madhu	1:30 – 2:00pm



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## DAY 2: 01/02/2023

<b>MODULE 4: DIODE LASER COMPONENTS AND OPERATION</b>		
Laser Systems Overview	Dr Madhu	8:00 – 9:00am
Optical Components	Dr Madhu	9:00 – 9:30am
Laser Delivery Systems	Dr Madhu	9:30 – 10:30am

<b>MODULE 5: LASER PARAMETERS AND SETTINGS</b>		
Power, Energy, and Pulse Duration	Dr Madhu	10:30am – 11:00am
Spot Size and Fluence	Dr Madhu	11:00am – 11:30am
Treatment Planning Considerations	Dr Madhu	11:30am – 12:00pm

<b>MODULE 6: SOFT TISSUE MANAGEMENT WITH DIODE LASERS</b>		
Gingival Depigmentation	Dr Madhu	12:00 – 12:30pm
Frenectomy	Dr Madhu	12:30 – 1:00pm
Crown Lengthening	Dr Madhu	1:00 – 1:30pm



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## DAY 3: 07.03.2023

<b>MODULE 7: ENDODONTIC APPLICATIONS</b>		
Disinfection of Root Canals	Dr. Robin	9:00am – 10:00am
Removal of Infected Tissue	Dr. Robin	10:00am – 11:00pm
Laser-Activated Irrigation	Dr. Robin	11:00pm – 12:00pm

<b>MODULE 8: COSMETIC ENHACEMENT</b>		
Teeth Whitening	Dr. Robin	1:30pm – 2:30pm
Gingival Contouring	Dr. Robin	2:30pm – 3:30pm
Lip Repositioning	Dr. Robin	3:30 – 4:30pm

## DAY 4: 17.03.2023

<b>MODULE 9: PERIODONTAL APPLICATIONS</b>		
Laser-Assisted Scaling and Root Planing	Dr. Manjusha Nambiar	8:00 – 9:00am
Pocket Sterilization	Dr. Manjusha Nambiar	9:00 – 9:30am
Laser-Assisted Regenerative Procedures	Dr. Manjusha Nambiar	9:30 – 10:30am





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<b>MODULE 10: SURGICAL PROCEDURES</b>		
Soft Tissue Biopsy	Dr. Manjusha Nambiar	10:30am – 11:00am
Fibroma Removal	Dr. Manjusha Nambiar	11:00am – 11:30am
Gingivectomy and Gingivoplasty	Dr. Manjusha Nambiar	11:30am – 12:00pm

<b>MODULE 11: LASER ASSISTED IMPLANTOLOGY</b>		
Soft Tissue Management around Implants	Dr. Manjusha Nambiar	12:00 – 12:30pm
Uncovering Implants	Dr. Manjusha Nambiar	12:30 – 1:00pm
Peri-implantitis Treatment	Dr. Manjusha Nambiar	1:00 – 1:30pm

## DAY 5:18.03.2023

<b>MODULE 12: PAIN MANAGEMENT AND DESENSITISATION</b>		
Laser Analgesia	Dr. Manjusha Nambiar	8:00 – 9:00am
Dentinal Hypersensitivity Treatment	Dr. Manjusha Nambiar	9:00 – 9:30am
Neuropathic Pain Management	Dr. Manjusha Nambiar	9:30 – 10:30am

HANDS ON	10:30 – 2:00pm
CASE BASED DISCUSSION	2:30 – 3:30pm



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## DAY 6: 31.05.2023

<b>MODULE 13: PEDIATRIC APPLICATIONS</b>		
Frenectomy in Infants	Dr. Eldho	8:00 – 9:00am
Pulpotomy and Pulpectomy	Dr. Eldho	9:00 – 9:30am
Laser Dentistry for Special Needs Children	Dr. Eldho	9:30 – 10:30am

<b>MODULE 14: PHOTOBIO-MODULATION THERAPY</b>		
Low-Level Laser Therapy (LLLT)	Dr. Eldho	10:30am – 11:00am
Accelerated Wound Healing	Dr. Eldho	11:00am – 11:30am
Pain Management	Dr. Eldho	11:30am – 12:00pm

<b>MODULE 15: LASER ASSISTED MICRO ENDODONTICS</b>		
Apical Surgery	Dr. Eldho	12:00 – 12:30pm
Retrograde Filling	Dr. Eldho	12:30 – 1:00pm
Healing Acceleration Techniques	Dr. Eldho	1:00 – 1:30pm



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## **POST EVENT REPORT**

The course entitled “Diode Laser: Clinical Application in Dentistry” conducted at St. Gregorios Dental College on 31<sup>ST</sup> January 2023 to 31<sup>st</sup> May 2023, aimed to provide the participants gave dental practitioners a thorough understanding of how to use diode lasers for a variety of clinical applications, along with practical abilities in doing so. There were [Insert Number] enrolled students in the course, and it included interesting talks, practical activities, and lively debates. The instructors' proficiency and the course material's applicability and relevancy were both commended by the participants. Within the dentistry community, valuable networking opportunities facilitated peer-to-peer learning and collaboration. Overall, participants' response on the course was good, suggesting that it was successful in providing them with the tools they needed to use diode lasers in their work. There is also room for future advanced-level workshops and ongoing engagement programmes. The course was attended by final year 2 students and interns from St. Gregorios Dental College with a keen interest in getting to know more about conscious sedation. Continuous feedback was solicited from participants through interactive sessions and post-event surveys.



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## **FEEDBACK FORM**

### 1. **Overall Course Evaluation:**

How would you rate the overall organization and structure of the course?

- Excellent
- Very Good
- Good
- Fair
- Poor

Did the course meet your expectations?

- Yes
- No

### 2. **Content and Presentation:**

Rate the quality of the lectures and presentations.

- Excellent
- Very Good
- Good
- Fair
- Poor

Were the topics covered relevant and beneficial to your learning?

- Yes
- No

Were the explanations clear and easy to understand?

- Yes
- No

### 3. **Hands-on Sessions:**

Rate the effectiveness of the hands-on sessions and practical demonstrations.

- Excellent
- Very Good
- Good
- Fair
- Poor

Did the hands-on sessions enhance your understanding and skills in isolation and magnification techniques?

- Yes
- No

### 4. **Instructors and Facilitators:**

How would you rate the knowledge and expertise of the instructors?

- Excellent
-



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(AFFILIATED TO KERALA UNIVERSITY OF HEALTH SCIENCES)

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- Very Good
- Good
- Fair
- Poor

Were the instructors approachable and responsive to questions?

- Yes
- No

5. **Course Materials:**

Were the course materials (handouts, presentations) helpful in your learning?

- Yes
- No

Do you have any suggestions for improving the course materials?

6. **Logistics and Facilities:**

How would you rate the logistics and facilities provided during the course?

- Excellent
- Very Good
- Good
- Fair
- Poor

Were the venue and equipment suitable for the hands-on sessions?

- Yes
- No

7. **Suggestions for Improvement:**

What aspects of the course did you find most valuable?

Are there any areas of the course that you think could be improved?

Do you have any suggestions for future topics or speakers?

8. **Additional Comments:**

Please share any additional comments or feedback about your experience in the course.

9. **Would you recommend this course to your peers?**

- Yes
- No

10. **Participant Information (Optional):**

**Name (Optional):**

**Email (Optional):**

Thank you for your participation and valuable feedback! Your input will help us enhance future educational offerings. Please return the completed form to Dr. Annie V Issac



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## **FEEDBACK ANALYSIS**

The study of participant responses throughout the course revealed a resounding response. The majority of attendees commended the thoroughness with which the topics were addressed in the lectures, and they particularly valued the workshops and the clear explanation of the pharmacology material. It was mentioned that excellent interactive learning was facilitated by the highly informed faculty. Some suggested adding more case studies for discussion and extending some of the workshops. In general, the course was well rated for its relevance, structure, and practical applicability; many students reported feeling more confident about applying conscious sedation techniques in their dental practices.



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## ASSIGNMENT

- 1. Which of the following is a common clinical application of diode lasers in dentistry?**
    - a) Teeth whitening
    - b) Amalgam restoration
    - c) Root canal therapy
    - d) Crown fabrication
  - 2. What is the primary tissue interaction of diode lasers with soft tissue?**
    - a) Vaporization
    - b) Coagulation
    - c) Photobiomodulation
    - d) Hemostasis
  - 3. Which wavelength range is typically used for diode lasers in soft tissue applications?**
    - a) 2940 nm
    - b) 810-980 nm
    - c) 1064 nm
    - d) 10,600 nm
  - 4. What is a crucial consideration when setting laser parameters for clinical procedures?**
    - a) Beam divergence
    - b) Laser weight
    - c) Patient's age
    - d) Tissue type and thickness
  - 5. Which of the following is NOT a safety precaution when using diode lasers in dentistry?**
    - a) Wearing laser safety glasses
    - b) Applying high-power settings
    - c) Maintaining a safe distance from reflective surfaces
    - d) Using a laser plume evacuator
  - 6. What is the primary purpose of gingival depigmentation using diode lasers?**
    - a) Removal of calculus deposits
    - b) Reduction of gingival inflammation
    - c) Elimination of pigmented melanin
    - d) Treatment of periodontal pockets
  - 7. Which dental specialty commonly utilizes diode lasers for soft tissue procedures?**
    - a) Orthodontics
    - b) Endodontics
    - c) Prosthodontics
    - d) Periodontics
-



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**8. Which type of laser therapy is used for pain management and wound healing?**

- a) High-intensity laser therapy (HILT)
- b) Low-level laser therapy (LLLT)
- c) Erbium laser therapy
- d) Carbon dioxide (CO<sub>2</sub>) laser therapy

**9. What is the primary advantage of diode lasers in soft tissue surgery compared to traditional methods?**

- a) Lower cost
- b) Faster healing
- c) Greater precision
- d) Reduced patient discomfort

**10. Which of the following is a cosmetic enhancement procedure performed using diode lasers?**

- a) Crown lengthening
- b) Tooth extraction
- c) Composite restoration
- d) Orthodontic adjustment





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## **Answer key:**

1. a) Teeth whitening
2. d) Hemostasis
3. b) 810-980 nm
4. d) Tissue type and thickness
5. b) Applying high-power settings
6. c) Elimination of pigmented melanin
7. d) Periodontics
8. b) Low-level laser therapy (LLLT)
9. c) Greater precision
10. a) Crown lengthening



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## ATTENDANCE LIST



### ST. GREGORIOS DENTAL COLLEGE, CHELAD

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA- 686681

TOPIC: DIODE LASER : clinical application in Dentistry

Sl no.	Name of participant	Day 1 11/12/22	Day 2 07/03/23	Day 3 14/3/23	Day 4 21/5/23
1	Mariya Elizabeth Swil	Present	Present	Present	Present
2	Sudhly VS.	Present	Present	Present	Present
3	Manisha Chandran	Present	Present	Present	Present
4	Tabin Jay	Present	Present	Present	Present
5	Rinke C Rajeev	Present	Present	Present	Present
6	Ashwanya Elizabeth K	Present	Present	Present	Present
7	Nihal An Mathew	Present	Present	Present	Present
8	Mr Jacob Mathew	Present	Present	Present	Present
9	MELVIN THOMAS	Present	Present	Present	Present
10	Anisha Rachel John	Present	Present	Present	Present
11	Jithin Saji	Present	Present	Present	Present
12	Alex Mathew	Present	Present	Present	Present
13	S. Mahima Mahendran	Present	Present	Present	Present
14	ANODIA TM	Present	Present	Present	Present
15	Rujana VH	Present	Present	Present	Present
16	AKSHARA TK	Present	Present	Present	Present
17	Elizabeth Kodiyattil	Present	Present	Present	Present
18	GEORGE BUU	Present	Present	Present	Present
19	Ashia Radil Saji	Present	Present	Present	Present
20	Mamya Maria Shyama	Present	Present	Present	Present
21	Hansa Mary Eldho	Present	Present	Present	Present
22	Vishali Jaiprakash	Present	Present	Present	Present
23	Abhina TK	Present	Present	Present	Present
24	Aneetta Anna	Present	Present	Present	Present
25	Alka Susan Binu	Present	Present	Present	Present

PRINCIPAL	DEU Convenor	DEU Secretary



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TOPIC: DIODE LASER : clinical Application in Dentistry

Sl no.	Name of participant	31/1/23 Day 1	1/2/23 Day 2	7/2/23 Day 3	13/3/23 Day 4	31/5/23 Day 5
26	CHIPPY ELIZABETH PHILIP	Chippy	Chippy	Chippy	Chippy	Chippy
27	ARYA GIRESA	Arya	Arya	Arya	Arya	Arya
28	Aparna U Raj	Aparna	Aparna	Aparna	Aparna	Aparna
29	Ashley EIDHO PAUL	AP	AP	AP	AP	AP
30	CHOURIAKSHMI	Govini	Govini	Govini	Govini	Govini
31	Lija Maria Joseph	LMI	LMI	LMI	LMI	LMI
32	Johann V Zacharias	Johann	Johann	Johann	Johann	Johann
33	AKHIL VARUGHESSE	Akhil	Akhil	Akhil	Akhil	Akhil
34	DITIL DAVID	Ditil	Ditil	Ditil	Ditil	Ditil
35	Libby Abraham	Libby	Libby	Libby	Libby	Libby
36	Pavenu Ann Pious	Pan	Pan	Pan	Pan	Pan
37	Ammulekshmi	X	X	X	X	X
38	Yinasa J Manal	Yinasa	Yinasa	Yinasa	Yinasa	Yinasa
39	Sara Vaughese	Sara	Sara	Sara	Sara	Sara
40	Ashwina Mathew	Ash	Ash	Ash	Ash	Ash
41	Cenn Emay	Cenn	Cenn	Cenn	Cenn	Cenn
42	Angy Pious	Angy	Angy	Angy	Angy	Angy
43	Maria Bonny	Maria	Maria	Maria	Maria	Maria
44	Angela P R	Angela	Angela	Angela	Angela	Angela
45	SNEHA G WATH	Sneha	Sneha	Sneha	Sneha	Sneha
46	Nikky Piku	Nikky	Nikky	Nikky	Nikky	Nikky
47	Rishi Paul	Rishi	Rishi	Rishi	Rishi	Rishi
48	Sara Bly	Sara	Sara	Sara	Sara	Sara
49	Disoathi Sunil	Disoathi	Disoathi	Disoathi	Disoathi	Disoathi
50	Angel Mary	Angel	Angel	Angel	Angel	Angel

PRINCIPAL	DEU Convener	DEU Secretary



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
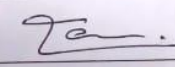
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TOPIC: DIODE LASER : *clinical application in Dentistry*

Sl no.	Name of participant	Day 1 12/12		Day 2 07/01/23	Day 3 18/1/23		Day 4 31/5/23
		S1	S2		S1	S2	
51	Shamila	SR	SR	SR	SR	SR	SR
52	Ruthi Rahul	RR	RR	RR	RR	RR	RR
53	Jin Minic	SR	SR	SR	SR	SR	SR
54	Jessy Elizabeth	SR	SR	SR	SR	SR	SR
55	Richa Sara	RS	RS	RS	RS	RS	RS
56	Dnyta Mary	RS	RS	RS	RS	RS	RS
57	AKSHAYA P R	RS	RS	RS	RS	RS	RS
58	Maria Lani	RS	RS	RS	RS	RS	RS
59	Shiva S Pishorey	RS	RS	RS	RS	RS	RS
60	Sasanne Johnson	RS	RS	RS	RS	RS	RS
61	Mahalakshmi A	RS	RS	RS	RS	RS	RS
62	Janitta Mathew	RS	RS	RS	RS	RS	RS
63	Son Saju	RS	RS	RS	RS	RS	RS
64	Amelia Desay	RS	RS	RS	RS	RS	RS
65	SHEETHAG K	RS	RS	RS	RS	RS	RS
66	Alshra Elizabeth	RS	RS	RS	RS	RS	RS
67	Digna K Piyu	RS	RS	RS	RS	RS	RS
68	Saathy S.	RS	RS	RS	RS	RS	RS

		
PRINCIPAL	DEU Convenor	DEU Secretary




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## BROCHURE



  
**ST. GREGORIOS DENTAL COLLEGE  
CHELAD**

# DIODE LASERS

CLINICAL APPLICATION IN DENTISTRY

ORGANIZED BY  
**DEPARTMENT OF  
PERIODONTICS AND IMPLANTOLOGY**  
DENTAL EDUCATION UNIT

FROM 31 JAN 2023 **COLLEGE AUDITORIUM**

6 MODULES TIME **8.00 AM ONWARDS**

Phone : 0485-2572531, 532, 9188952016, 9188952017

Email : [sgdc@rediffmail.com](mailto:sgdc@rediffmail.com), Web : [sgdc.ac.in](http://sgdc.ac.in)



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## CERTIFICATE

**ST. GREGORIOS DENTAL COLLEGE, CHELAD**  
DEPARTMENT OF PERIODONTICS  
IN ASSOCIATION WITH  
DENTAL EDUCATION UNIT

**CERTIFICATE OF MERIT**

THIS IS TO CERTIFY THAT

*Aparna. C. Raj*

HAS SUCCESSFULLY COMPLETED 30 HOURS OF ADD ON COURSE ENTITLED "DIODE LASER CLINICAL APPLICATION IN DENTISTRY" ORGANISED BY THE DEPARTMENT OF PERIODONTICS IN ASSOCIATION WITH DENTAL EDUCATION UNIT FROM 31.1.23 TO 31.5.23

**PROF. DR. JAIN MATHEW**  
PRINCIPAL

**DR. ALLU BABY**  
CONVENOR, DEU

**DR. ANNIE V ISSAC**  
COURSE COORDINATOR



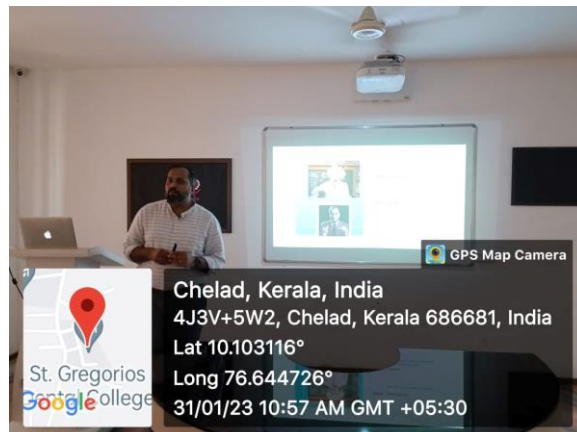
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## PHOTOS



PHOTOS OF ADD ON COURSE  
“DIODE LASER: CLINICAL APPLICATION IN DENTISTRY”



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## **MICROSCOPES A DIGITAL ENTITY (LAWRENCE & MAYO)**

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Phone : 0485-2572531, 532, 9188952016, 9188952017

Email : [sgdc@rediffmail.com](mailto:sgdc@rediffmail.com), Web : [sgdc.ac.in](http://sgdc.ac.in)



From  
Head of the Department  
Department of Oral Pathology  
St. Gregorios Dental College, Chelad

To  
The Principal  
St. Gregorios Dental College, Chelad

Subject: Request letter for conducting MICROSCOPES A DIGITAL ENTITY (LAWRENCE & MAYO) certificate program for 3<sup>rd</sup> year students

Respected Sir,

We are planning to conduct an add on course for 3<sup>rd</sup> year students on the topic entitled MICROSCOPES A DIGITAL ENTITY (LAWRENCE & MAYO) on 01.02.2023-04.02.2023 in the college auditorium. Details of the program are enclosed here for your reference.

Requesting you to kindly give us permission and guide us to conduct the program.

Thanking you,  
Yours sincerely,



Dr. Tina Elizabeth Jacob  
Head of the Department  
Department of Oral Pathology

**ST GREGORIOS DENTAL COLLEGE**

**CHELAD, KOTHAMANGALAM**

SGDC/ADD/002/2023

30/01/2023

**CIRCULAR**

Subject: Certificate course on Microscopes: A Digital Entity (Lawrence & Mayo) for 3<sup>rd</sup> year students.

This is to inform you that an add on course for 3<sup>rd</sup> year students is being organised by the Department of Conservative Dentistry and Endodontics on topic Entitled Microscopes: A Digital Entity (Lawrence & Mayo) from 01.02.2023-04.02.2023 in the college auditorium

For further reference reach out to Dr. Tina Elizabeth Jacob



**PRINCIPAL**

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All departments

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St. Gregorios Dental College  
Chelad, Kerala - 686 651



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## DEPARTMENT OF ORAL PATHOLOGY MICROSCOPES: A DIGITAL ENTITY (LAWRENCE & MAYO)

Venue: St. Gregorios Dental College

Date/time: 01.02.2023-04.02.2023

### **Course syllabus:**

MICROSCOPES: A DIGITAL ENTITY (LAWRENCE & MAYO)

### **Preamble:**

In "Microscopes: A Digital Entity (Lawrence & Mayo) for Dental Students," participants experience a paradigm shift when digital technologies are incorporated into microscopy. This creative programme, which was created in partnership with Lawrence & Mayo, a well-known supplier of digital and optical solutions, reimagines the way dental education uses microscopy. Through immersive learning activities, participants will discover the endless possibilities of digital microscopes to improve their understanding and proficiency in dental sciences. Come explore new learning and exploration opportunities in the field of dentistry with us as we embark on this innovative project.

### **Rationale of the course:**

A thorough examination of microscopy in the digital era may be found in the course "Microscopes: A Digital Entity". Students acquire a strong foundation in optical, electron, and scanning probe microscopy by exploring the historical development and basic concepts of microscopy. Sophisticated subjects like atomic force microscopy and confocal microscopy are explained alongside new developments like multi-modal methods and super-resolution imaging. The course provides students with the information and abilities needed to successfully navigate the complexities of contemporary microscopy, encouraging creativity and ethical scientific practice in the digital age. This is achieved through discussions on ethical and legal issues as well as practical applications in research and industry.

### **Aim:**

The goal of the course "Microscopes: A Digital Entity" course for dentistry students is to provide them a thorough understanding of microscopy methods that are applicable to dental practice. The course intends to equip students with the necessary theoretical knowledge and practical abilities to effectively use advanced microscope technologies for dentistry research, treatment planning, and diagnosis.



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**Eligible participants:** 3<sup>rd</sup> year students

**Course duration:** Total 30 hours

**Mode of delivery:** Offline mode

**Course coordinator:** Dr. Teena Elizabeth Jacob

**Course faculty:** Ravi Teja Desari (Regional Sales Manager – SI & MH Instruments)



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## COURSE SCHEDULE

**DAY 1: 01/02/2023**

<b>MODULE 1: INTRODUCTION TO MICROSCOPY</b>		
Historical Background	Ravi Teja Desari	8:00am – 9:00am
Basic Principles	Ravi Teja Desari	9:00am – 10:00am
Importance in Dentistry	Ravi Teja Desari	10:00am – 10:30am

<b>MODULE 2: OPTICAL MICROSCOPY</b>		
Bright-field Microscopy	Ravi Teja Desari	10:30am – 11:00am
Phase-contrast Microscopy	Ravi Teja Desari	11:00am – 11:30am
Fluorescence Microscopy	Ravi Teja Desari	11:30am – 12:00pm

<b>MODULE 3: ELECTRON MICROSCOPY</b>		
Scanning Electron Microscopy (SEM)	Ravi Teja Desari	12:00 – 12:30pm
Transmission Electron Microscopy (TEM)	Ravi Teja Desari	12:30 – 1:30pm
Sample Preparation Techniques	Ravi Teja Desari	1:30 – 2:00pm

<b>MODULE 4: DIGITAL IMAGING TECHNIQUES</b>		
CCD Cameras	Ravi Teja Desari	2:30 – 3:00pm
CMOS Cameras	Ravi Teja Desari	3:00 – 3:30pm
Image Processing Software	Ravi Teja Desari	3:30 – 4:30pm



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## DAY 2: 02/02/2023

PRACTICAL DEMO SESSION	8:00 – 2:00PM
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MODULE 5: MICROSCOPY IN ORAL PATHOLOGY		
Diagnosis of Oral Lesions	Ravi Teja Desari	2:30 – 3:00pm
Tissue Morphology Analysis	Ravi Teja Desari	3:00 – 3:30pm
Immunofluorescence Techniques	Ravi Teja Desari	3:30 – 4:30pm

## DAY 3: 03/02/23

MODULE 6: MICROSCOPY IN ENDODONTICS		
Root Canal Morphology Examination	Ravi Teja Desari	8:00 – 9:00am
Dentin Structure Analysis	Ravi Teja Desari	9:00 – 9:30am
Microbial Imaging Techniques	Ravi Teja Desari	9:30 – 10:30am

MODULE 7: MICROSCOPY IN PROSTHODONTICS		
Dental Implant Surface Analysis	Ravi Teja Desari	10:30 – 11:00am
Prosthetic Material Evaluation	Ravi Teja Desari	11:00 – 11:30am
Marginal Fit Assessment	Ravi Teja Desari	11:30 – 12:00pm



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<b>MODULE 8: MICROSCOPY IN PERIODONTICS</b>		
Subgingival Biofilm Imaging	Ravi Teja Desari	12:00 – 12:30pm
Periodontal Tissue Microstructure Analysis	Ravi Teja Desari	12:30 – 1:00pm
Assessment of Bone Regeneration	Ravi Teja Desari	1:00 – 1:30pm

<b>MODULE 9: MICROSCOPY IN ORTHODONTICS</b>		
Enamel Surface Examination	Ravi Teja Desari	2:30 – 3:00pm
Orthodontic Bracket Analysis	Ravi Teja Desari	3:00 – 3:30pm
Tooth Movement Dynamics	Ravi Teja Desari	3:30 – 4:30pm

## DAY 4: 04/02/23

<b>MODULE 10: MICROSCOPY IN DENTAL MATERIALS SCIENCE</b>		
Composite Resin Characterization	Ravi Teja Desari	8:00 – 9:00am
Adhesive Interface Imaging	Ravi Teja Desari	9:00 – 9:30am
Nanomaterials Analysis	Ravi Teja Desari	9:30 – 10:30am

<b>MODULE 11: MICROSCOPY IN DENTAL BIOMATERIALS</b>		
Biocompatibility Evaluation	Ravi Teja Desari	10:30 – 11:00am
Surface Modification Analysis	Ravi Teja Desari	11:00 – 11:30am
Degradation Studies	Ravi Teja Desari	11:30 – 12:00pm



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<b>MODULE 12: MICROSCOPY IN FORENSIC ODONTOLOGY</b>		
Bite Mark Analysis	Ravi Teja Desari	12:00 – 12:30pm
Dental Identification Techniques	Ravi Teja Desari	12:30 – 1:00pm
Forensic Imaging Software	Ravi Teja Desari	1:00 – 1:30pm

<b>MODULE 13: ETHICAL AND LEGAL ASPECTS OF MICROSCOPY IN DENTISTRY</b>		
Patient Confidentiality and Privacy	Ravi Teja Desari	2:30 – 3:00pm
Intellectual Property Rights	Ravi Teja Desari	3:00 – 3:30pm
Regulatory Compliance and Standards	Ravi Teja Desari	3:30 – 4:30pm





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## **POST EVENT REPORT**

The successful conclusion of the "Microscopes: A Digital Entity" course, held at ST. Gregorios Dental College from 1<sup>st</sup> February 2023 to 4<sup>th</sup> February 2023, which was taught by Mr. Ravi Teja Desari, Regional Sales Manager of SI & MH Instruments, provided insightful information about the use of microscopy in dentistry. The attendees acquired a thorough awareness of the several microscopy methods and how important they are to dentistry practice, research, and teaching. The training covered the most recent developments in digital imaging and analytic tools, giving participants useful skills to improve dental research results, treatment planning, and diagnosis. In addition to providing possibilities for networking between dental professionals and researchers, the interactive seminars and practical demonstrations made learning experiences more engaging. Because of Mr. Desari's experience and captivating style, attendees left the workshop with a greater understanding of the use of microscopy in contemporary dentistry and a revitalised passion for incorporating digital microscopy tools into their professional practices.



# ST.GREGORIOS DENTAL COLLEGE

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA - 686681  
(AFFILIATED TO KERALA UNIVERSITY OF HEALTH SCIENCES)

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## **FEEDBACK FORM**

### 1. **Overall Course Evaluation:**

How would you rate the overall organization and structure of the course?

- Excellent
- Very Good
- Good
- Fair
- Poor

Did the course meet your expectations?

- Yes
- No

### 2. **Content and Presentation:**

Rate the quality of the lectures and presentations.

- Excellent
- Very Good
- Good
- Fair
- Poor

Were the topics covered relevant and beneficial to your learning?

- Yes
- No

Were the explanations clear and easy to understand?

- Yes
- No

### 3. **Practical Demonstration**

Rate the effectiveness of the practical demonstrations.

- Excellent
- Very Good
- Good
- Fair
- Poor

Did the demonstration sessions enhance your understanding and skills in isolation and magnification techniques?

- Yes
- No

### 4. **Instructors and Facilitators:**

How would you rate the knowledge and expertise of the instructors?



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- Excellent
- Very Good
- Good
- Fair
- Poor

Were the instructors approachable and responsive to questions?

- Yes
- No

5. **Course Materials:**

Were the course materials (handouts, presentations) helpful in your learning?

- Yes
- No

Do you have any suggestions for improving the course materials?

6. **Logistics and Facilities:**

How would you rate the logistics and facilities provided during the course?

- Excellent
- Very Good
- Good
- Fair
- Poor

Were the venue and equipment suitable for the hands-on sessions?

- Yes
- No

7. **Suggestions for Improvement:**

What aspects of the course did you find most valuable?

Are there any areas of the course that you think could be improved?

Do you have any suggestions for future topics or speakers?

8. **Additional Comments:**

Please share any additional comments or feedback about your experience in the course.

9. **Would you recommend this course to your peers?**

- Yes
- No

10. **Participant Information (Optional):**

**Name (Optional):**

**Email (Optional):**

Thank you for your participation and valuable feedback! Your input will help us enhance future educational offerings. Please return the completed form to Dr. Tina Elizabeth Jacob

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## **FEEDBACK ANALYSIS**

The overwhelming positive reaction from the "Microscopes: A Digital Entity" course attendees highlighted Mr. Ravi Teja Desari's expertise and captivating delivery. The course's thorough presentation of dental microscopy applications and its application to their professional duties were well appreciated by the attendees. Numerous people conveyed gratitude for the practical demonstrations, which improved their comprehension and self-assurance in applying digital microscopy methods in their practice and research projects.



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## ASSIGNMENT

- 1. In digital dentistry, what does CAD/CAM stand for?**
    - a) Computer-Aided Design/Computer-Aided Manufacturing
    - b) Centralized Analysis and Diagnosis/Computer-Assisted Management
    - c) Contemporary Approaches in Dentistry/Computerized Assessment Methods
    - d) Creative Artistry Design/Computerized Application Modules
  - 2. Which type of microscope is commonly used for magnification in dental procedures?**
    - a) Scanning Electron Microscope (SEM)
    - b) Transmission Electron Microscope (TEM)
    - c) Confocal Microscope
    - d) Surgical Operating Microscope
  - 3. Digital microscopes in dentistry often utilize which technology for capturing and analyzing images?**
    - a) Photonics
    - b) CCD (Charge-Coupled Device)
    - c) CMOS (Complementary Metal-Oxide-Semiconductor)
    - d) Fiber optics
  - 4. Which of the following is NOT a benefit of using digital microscopes in dental practice?**
    - a) Enhanced magnification capabilities
    - b) Real-time imaging
    - c) Reduced risk of contamination
    - d) Limited field of view
  - 5. What is the primary purpose of using digital microscopes in endodontic procedures?**
    - a) To analyze tissue samples for pathology
    - b) To assist in canal debridement and shaping
    - c) To create digital impressions for prosthetic fabrication
    - d) To visualize periodontal tissues for diagnosis
  - 6. Digital microscopy in dentistry is particularly useful for:**
    - a) Analyzing dental materials for their structural integrity
    - b) Capturing high-resolution images of oral lesions
    - c) Measuring tooth dimensions accurately
    - d) Assessing occlusal relationships
-



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**7. Which software is commonly used for image analysis in digital microscopy for dental applications?**

- a) AutoCAD
- b) ImageJ
- c) Adobe Photoshop
- d) Microsoft Excel

**8. How does digital microscopy enhance communication between dentists and patients?**

- a) By enabling patients to view real-time images of their dental condition
- b) By facilitating remote consultations with specialists
- c) By automating treatment planning processes
- d) By reducing the need for verbal explanations

**9. Which of the following is a limitation of traditional optical microscopes compared to digital microscopes in dentistry?**

- a) Limited magnification options
- b) Inability to capture images in real-time
- c) Lack of compatibility with computer software
- d) Risk of contamination from eyepiece viewing

**10. Digital microscopes are revolutionizing dental education by:**

- a) Allowing for remote access to live demonstrations and lectures
- b) Enabling students to manipulate 3D models of dental structures
- c) Providing real-time feedback during laboratory sessions
- d) All of the above



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**Answer key:**

- a) Computer-Aided Design/Computer-Aided Manufacturing
- d) Surgical Operating Microscope
- c) CMOS (Complementary Metal-Oxide-Semiconductor)
- d) Limited field of view
- b) To assist in canal debridement and shaping
- a) Analyzing dental materials for their structural integrity
- b) ImageJ
- a) By enabling patients to view real-time images of their dental condition
- b) Inability to capture images in real-time
- d) All of the above




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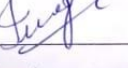
## ATTENDANCE LIST



**ST. GREGORIOS DENTAL COLLEGE, CHELAD**  
 UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ  
 CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA- 686681

TOPIC: Microscopes - in digital entity (Lawrence & Mayo)

Sl no.	Name of participant	1-2-23 Day 1	2-2-23 Day 2	3-2-23 Day 3	4-2-23 Day 4
1.	Abinaya KA	[Signature]	[Signature]	[Signature]	[Signature]
2.	Ahsana	[Signature]	[Signature]	[Signature]	[Signature]
3.	Aleena	[Signature]	[Signature]	[Signature]	[Signature]
4.	Aneena	Aneena	Aneena	Aneena	Aneena
5.	Anil Simon	Anil Simon	Anil Simon	Anil Simon	Anil Simon
6.	Aji Anjitha	[Signature]	[Signature]	[Signature]	[Signature]
7.	Annet Rachel Joy	[Signature]	[Signature]	[Signature]	[Signature]
8.	Arsha	[Signature]	[Signature]	[Signature]	[Signature]
9.	Ashwini Graneesh	[Signature]	[Signature]	[Signature]	[Signature]
10.	Alhira Kujisamam	[Signature]	[Signature]	[Signature]	[Signature]
11.	Alhira PR	[Signature]	[Signature]	[Signature]	[Signature]
12.	Gopika Jashi	[Signature]	[Signature]	[Signature]	[Signature]
13.	Gopika SM	[Signature]	[Signature]	[Signature]	[Signature]
14.	Hephziba Tom	[Signature]	[Signature]	[Signature]	[Signature]
15.	Hridya Kuriakose	[Signature]	[Signature]	[Signature]	[Signature]
16.	Jia Suresh	[Signature]	[Signature]	[Signature]	[Signature]
17.	Jiji Jiji	[Signature]	[Signature]	[Signature]	[Signature]
18.	Krishna Prakash	[Signature]	[Signature]	[Signature]	[Signature]
19.	Liya Merin Paul	[Signature]	[Signature]	[Signature]	[Signature]
20.	Maria M Raju	[Signature]	[Signature]	[Signature]	[Signature]
21.	Mehar	[Signature]	[Signature]	[Signature]	[Signature]
22.	Mesin Rose	[Signature]	[Signature]	[Signature]	[Signature]
23.	MERIN XAVIER	[Signature]	[Signature]	[Signature]	[Signature]
24.	Nikma Nazam	[Signature]	[Signature]	[Signature]	[Signature]
25.	Pantu Suril	[Signature]	[Signature]	[Signature]	[Signature]

		
PRINCIPAL	DEU Convenor	DEU Secretary





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TOPIC: MICROSCOPES - A digital entity

Sl no.	Name of participant	1-2-23 Day 1	2-2-23 Day 2	3-2-23 Day 3	4-2-23 Day 4
26	Raj Mohan	Raj	Raj	Raj	Raj
27	Bethini rohin	Bethini	Bethini	Bethini	Bethini
28	SAJCESHA SASI	Sajcesha	Sajcesha	Sajcesha	Sajcesha
29	Saretha Heman Thomas	Saretha	Saretha	Saretha	Saretha
30	Sanjiv Susan Rajan	Sanjiv	Sanjiv	Sanjiv	Sanjiv
31	SARAH MATHEW	Sarah	Sarah	Sarah	Sarah
32	Sreha NS	Sreha	Sreha	Sreha	Sreha
33	Prigda Jayaraj	Prigda	Prigda	Prigda	Prigda
34	Sreelakshmi	Sreelakshmi	Sreelakshmi	Sreelakshmi	Sreelakshmi
35	SREENDRA CR	Sreendra	Sreendra	Sreendra	Sreendra
36	swathi S	Swathi	Swathi	Swathi	Swathi
37	Vaishnavi sibu	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
38	ARUN V.A	Arun	Arun	Arun	Arun
39	S.Parthana	Parthana	Parthana	Parthana	Parthana
40	Muruga T.P	Muruga	Muruga	Muruga	Muruga

PRINCIPAL	DEU Convenor	DEU Secretary



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## BROCHURE



ST. GREGORIOS DENTAL COLLEGE, CHELAD

In association with



Lawrence & Mayo

ESTD: 1877

ADD-ON COURSE  
DEPT. OF ORAL PATHOLOGY

# MICROSCOPE: A DIGITAL ENTITY

Technology Advancements in the  
field of Microscopy & Digital Imaging

DATE: 1-4 FEB, 2023

TIME: 10:30 AM

VENUE: COLLEGE AUDITORIUM





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## CERTIFICATE

ST. GREGORIOS DENTAL COLLEGE, CHELAD  
DEPARTMENT OF ORAL PATHOLOGY  
IN ASSOCIATION WITH  
DENTAL EDUCATION UNIT AND LYNX (LAWRENCE AND MAYO)



### CERTIFICATE OF MERIT

THIS IS TO CERTIFY THAT

*Just Simon.*

HAS SUCCESSFULLY COMPLETED 30 HOURS OF ADD ON COURSE ENTITLED  
"MICROSCOPES A DIGITAL ENTITY" ORGANISED BY THE DEPARTMENT OF  
ORAL PATHOLOGY IN ASSOCIATION WITH DENTAL EDUCATION UNIT AND  
"LYNX" (LAWRENCE AND MAYO) FROM 1.2.23 TO 4.2.23.

Prof. Dr. Jain Mathew  
PRINCIPAL

Dr. Allu Baby  
CONVENOR, DEU

Mr. Ravi Teja Desari  
REGIONAL SALES MANAGER  
(SI & MH) INSTRUMENTS



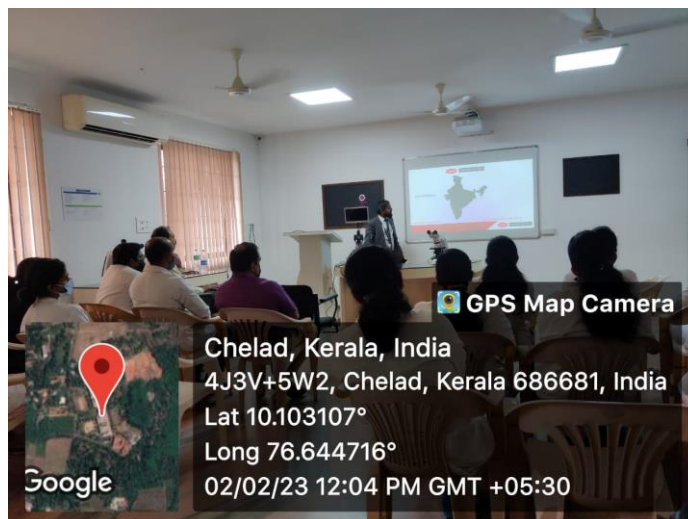
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## PHOTOS



PHOTOS OF ADD ON COURSE  
MICROSCOPES A DIGITAL ENTITY



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## HISTOLOGY AND CELL BIOLOGY

From

Department of General Anatomy and Histology  
St.Gregorios Dental College, Chelad

To

The Principal  
St.Gregorios Dental College, Chelad

Subject: Request letter for conducting HISTOLOGY AND CELL BIOLOGY  
certificate program for First year students.

Respected Sir,

We are planning to conduct an add on course for First year students on 'HISTOLOGY AND  
CELL BIOLOGY' from 06.02.2023-09.02.2023 in the First Year Classroom. Details of the  
program are enclosed here for your reference.

Requesting you to kindly give us permission and guide us to conduct the program.

Thanking you,

Yours sincerely,



Ms. Nima M.Kalappura

Department of General Anatomy and Histology

**ST. GREGORIOS DENTAL COLLEGE**

**CHELAD, KOTHAMANGALAM**

SGDC/ADD/003/2023

04/02/2023

**CIRCULAR**

Subject: Certificate course on 'Histology and Cell Biology' for First year students.

This is to inform you that an add on course for First year students is being organized by the Dental Education Unit and the Department of General Anatomy and Histology on topic entitled 'Histology and Cell Biology' from 06.02.2023-09.02.2023.

For further reference reach out to Ms. Manju Manoharan.



**PRINCIPAL**

PRINCIPAL  
St. Gregorios Dental College  
Chelad, Kerala - 686 681

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## DEU AND DEPARTMENT OF GENERAL ANATOMY AND HISTOLOGY

### HISTOLOGY AND CELL BIOLOGY

Date/time: 06.02.2023-09.02.2023

#### **Course syllabus:**

Histology and Cell Biology.

#### **Preamble:**

Histology, the study of tissues, and cell division are two of the fundamental pillars in understanding the intricate structure and function of the human body. Histology thus sheds light on tissue organization, while cell division enlightens on how cells proliferate and regenerate. This lecture navigates through the microscopic world one learns about cell anatomy, phases of cell division, and their importance in dental practice.

#### **Rationale of the course:**

This course will deliver solid principles in the areas of histology and cell division mechanisms, therefore enabling the students to achieve the structure-function relationships of dental tissues with application ability in the clinical setting. By explaining the relevance of histology and cell division to dental practice, the course produces competent and confident dental practitioners who are endowed with relevant microscopic insight.

#### **Aim:**

This course aims at equipping first-year BDS students with integral knowledge of histology and cell division with regard to the specific needs in dental practice. By studying the microscopic anatomy of tissues and the processes underlying cell division, the course aims at instilling an appreciation for the details that make dental anatomy and physiology unique. The course will empower students with knowledge and skills to integrate histological principles in the clinical practice of dentistry for effective delivery in the future as dental professionals.

#### **Eligible participants:**

First year students

**Course duration:** Total 32 hours

**Mode of delivery:** Offline mode

**Course coordinator:** Ms. Manju Manoharan

**Course Faculty:** Ms. Nima M. Kalapura





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## COURSE SCHEDULE

**DAY 1: 06/02/2023**

### INTRODUCTION TO HISTOLOGY AND CELL DIVISION

**Speaker: Ms. Nima M. Kalapura**

**8:30 am-10:30 am: Lecture 1: INTRODUCTION TO HISTOLOGY**

- Brief about histology and its relation in dentistry
- Basic types of tissues and their features
- Introduction to cell biology and the structure of cells

**10:30 am-12:30 pm: Laboratory session 1: MICROSCOPIC EXAMINATION**

- Guided observation of histological slides of different types of tissues
- Identification of microscopic structures of cells and tissues

**1:30 pm-3:30 pm: Workshop 1: CELL BIOLOGY BASICS**

- Interactive on the structure and organelles of cells
- Hands-on sessions on the phases and mechanisms of cell division
- Group discussion on the importance and applicability of cell biology in dentistry

**3:30 pm-4:30 pm: Case Study 1: CLINICAL RELEVANCE OF HISTOLOGY**

- Discussion and analysis of a clinical case related to a histological abnormality
- Importance of histological examination in dental diagnosis



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**DAY 2: 07/02/2023**

## **CELL DIVISION AND TISSUE GROWTH**

**Speaker: Ms. Nima M. Kalapura**

### **8:30 am - 10:30 am: Lecture 2 - CELL DIVISION: MITOSIS**

- Detailed explanation of the phases of mitosis
- Significance of mitosis in tissue growth and repair

### **10:30 am - 12:30 pm: Laboratory Session 2 - MITOSIS IN ACTION**

- Observation of histological slides depicting different stages of mitosis
- Identification and characterization of mitotic cells

### **1:30 pm - 3:30 pm: Workshop 2 - UNDERSTANDING MEIOSIS**

- Interactive session on meiosis and gametogenesis
- Group activities exploring the role of meiosis in reproduction
- Case studies on genetic disorders related to meiotic errors

### **3:30 pm - 4:30 pm: Case Study 2 - GENETIC BASIS OF DENTAL CONDITIONS**

- Analysis of clinical cases involving genetic dental disorders
- Discussion on the underlying cellular and genetic mechanisms



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**DAY 3: 08/02/2023**

## **HISTOLOGY OF DENTAL TISSUES**

**Speaker: Ms. Nima M. Kalapura**

### **8:30 am - 10:30 am Lecture 3 - HISTOLOGY OF DENTAL TISSUES**

- Introduction to enamel, dentin, cementum, and pulp tissues
- Structural features and functions of dental tissues

### **10:30 am - 12:30 pm Laboratory Session 3 - DENTAL TISSUE MICROSCOPY**

- Examination of histological slides showing dental tissues
- Identification of specific dental structures and their clinical significance

### **1:30 pm - 3:30 pm Workshop 3 - CLINICAL APPLICATIONS OF DENTAL HISTOLOGY**

- Hands-on activities mimicking dental histological examinations
- Discussion on the role of dental histology in diagnosis and treatment planning
- Interactive case studies focusing on the histological aspects of dental diseases

### **3:30 pm - 4:30 pm Case Study 3 - HISTOPATHOLOGICAL ANALYSIS**

- Interpretation of histopathological reports related to dental conditions
- Discussion on treatment implications based on histological findings



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**DAY 4: 09/02/2023**

## **INTEGRATIVE REVIEW AND APPLICATION**

**Speaker: Ms. Nima M. Kalapura**

### **8:30 am – 10:30 am: Review Session – Recap and Integration**

- Comprehensive review of major points from the sessions
- Integration of Histology and Cell Biology Principles into Clinical Situations

### **10:30 am – 12:30 pm: Workshop 4: Problem-Based Learning**

- Analysis of Clinical Cases pertaining to Histology and Cell Division in Groups
- Small Group Activities based on practical clinical situations

### **1:30 pm – 3:30 pm: Interactive Session - Virtual Histology Lab**

- Virtual Tour of State-of-the-Art Histology Techniques and Research Facilities
- Question/Answer session with experts and researchers in Histology

### **3:30 pm – 4:30 pm: Summary and Evaluation**

- Course Evaluation and Feedback Session
- Conclusion discussion concerning the significance of Histology and Cell Division in Dentistry
- Distribution of certificates of participation



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## **POST EVENT REPORT**

‘Histology and Cell Biology’ course conducted at St. Gregorios Dental College from February 17<sup>th</sup> to February 9<sup>th</sup>, 2023, was designed to provide a comprehensive foundation in microscopic anatomy and cellular processes. Attendees engaged in interactive lectures, hands-on laboratory sessions, and problem-based workshops, fostering deep understanding and practical application of histological principles. Participants explored tissue structures, cell division mechanisms, and their clinical relevance in dentistry through case studies and group discussions. The course facilitated active learning and critical thinking, equipping students with essential skills for diagnosing and treating oral diseases. The course was attended by the first year students of St. Gregorios Dental College. Feedback from participants was overwhelmingly positive, highlighting the course's effectiveness in enhancing their understanding of histology and its significance in dental practice.



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## **FEEDBACK FORM**

**1. Overall, how would you rate the quality of the course content?**

- Excellent
- Very good
- Good
- Fair
- Poor

**2. Were the lectures clear and easy to understand?**

- Yes
- No

**3. Did the laboratory sessions enhance your understanding of histological concepts?**

- Yes
- No

**4. Were the workshops engaging and interactive?**

- Yes
- No

**5. Did the case studies help you grasp the clinical relevance of histology and cell division?**

- Yes
- No

**6. Were the instructors knowledgeable and approachable?**

- Yes
- No

**7. Did the course meet your expectations?**

- Yes
- No



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**8. What aspect of the course did you find most beneficial?**

**9. What aspect of the course do you think could be improved?**

**10. Would you recommend this course to your peers?**

- Yes  
 No

**11. Any additional comments or suggestions?**

**12. Participant Information (Optional):**

**Name:**

**Email:**

Thank you for your participation and valuable feedback! Your input will help us enhance Future educational offerings. Please return the completed form to Ms. Manju Manoharan.



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## **FEEDBACK ANALYSIS**

Students enjoyed the Anatomy and Cell Division course, citing lecture clarity and interactive workshops. The integration of case studies also helped to impress the clinical relevance of histology and cell division. A few students expressed a desire for more practical sessions in the lab. Generally, instructors were praised for their knowledge and approachability. For future iterations, students suggested more practical sessions and increasing the variety of clinical scenarios discussed.





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(AFFILIATED TO KERALA UNIVERSITY OF HEALTH SCIENCES)

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## ASSIGNMENT

- 1. What is the primary focus of histology in dentistry?**
  - A) Study of microbial pathogens
  - B) Analysis of dental materials
  - C) Understanding tissue structure
  - D) Investigation of dental radiographs
- 2. Which phase of the cell cycle involves DNA replication?**
  - A) G1 phase
  - B) S phase
  - C) G2 phase
  - D) M phase
- 3. Which organelle is responsible for protein synthesis?**
  - A) Golgi apparatus
  - B) Endoplasmic reticulum
  - C) Mitochondria
  - D) Ribosome
- 4. During which phase of mitosis do sister chromatids separate and move to opposite poles of the cell?**
  - A) Prophase
  - B) Metaphase
  - C) Anaphase
  - D) Telophase
- 5. Meiosis results in the formation of:**
  - A) Somatic cells
  - B) Haploid cells
  - C) Diploid cells
  - D) Totipotent cells
- 6. Which dental tissue is primarily composed of hydroxyapatite crystals?**
  - A) Enamel
  - B) Dentin
  - C) Cementum
  - D) Pulp



# ST.GREGORIOS DENTAL COLLEGE

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- 7. Which workshop activity is designed to simulate real-world clinical scenarios?**
  - A) Microscopic examination
  - B) Problem-based learning
  - C) Cell biology basics
  - D) Virtual histology lab
- 8. What is the role of histological examination in dental diagnosis?**
  - A) Assessing dental occlusion
  - B) Evaluating oral hygiene
  - C) Identifying tissue abnormalities
  - D) Measuring dental caries
- 9. Which phase of the cell cycle involves cell growth and preparation for DNA replication?**
  - A) G1 phase
  - B) S phase
  - C) G2 phase
  - D) M phase
- 10. What was the primary objective of the Histology and Cell Division course?**
  - A) To study the anatomy of the heart
  - B) To understand the function of blood cells
  - C) To explore tissue structures and cell division mechanisms
  - D) To analyze dental radiographs for abnormalities



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## **Answer key:**

1. C) Understanding tissue structure
2. B) S phase
3. D) Ribosome
4. C) Anaphase
5. B) Haploid cells
6. A) Enamel
7. B) Problem-based learning
8. C) Identifying tissue abnormalities
9. A) G1 phase
10. C) To explore tissue structures and cell division mechanisms



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CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA - 686681

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## PARTICIPANTS LIST



### ST. GREGORIOS DENTAL COLLEGE, CHELAD

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA - 686681

TOPIC: Histology of Cell Biopsy

Sl no.	Name of participant	Day 1 16-2-23	Day 2 17-2-23	Day 3 18-2-23	Day 4 19-2-23
1.	Adhithya VJ	Adhithya	Adhithya	Adhithya	Adhithya
2.	Airwarya Lekshmi MJ	Airwarya	Airwarya	Airwarya	Airwarya
3.	Acsawaya P.s	Acsawaya	Acsawaya	Acsawaya	Acsawaya
4.	Akhita C	Akhita	Akhita	Akhita	Akhita
5.	Akanksha Pradeep	Akanksha	Akanksha	Akanksha	Akanksha
6.	Akankanda P.s	Akankanda	Akankanda	Akankanda	Akankanda
7.	Aleena Mariyam Samu	Aleena	Aleena	Aleena	Aleena
8.	Alen Sukil	Alen	Alen	Alen	Alen
9.	Anitha Grace Abraham	Anitha	Anitha	Anitha	Anitha
10.	Anisutha PK	Anisutha	Anisutha	Anisutha	Anisutha
11.	Anakha Sajan	Anakha	Anakha	Anakha	Anakha
12.	Angel Babu	Angel	Angel	Angel	Angel
13.	Anista Simon	Anista	Anista	Anista	Anista
14.	Anjali Angel	Anjali	Anjali	Anjali	Anjali
15.	Anjana P.s	Anjana	Anjana	Anjana	Anjana
16.	Anju G	Anju	Anju	Anju	Anju
17.	Annabel Mary Binoy	Annabel	Annabel	Annabel	Annabel
18.	Annamary Vign	Annamary	Annamary	Annamary	Annamary
19.	Anupama V Shally	Anupama	Anupama	Anupama	Anupama
20.	Anu Sonny Thomas	Anu	Anu	Anu	Anu
21.	Aparna Anil	Aparna	Aparna	Aparna	Aparna
22.	Christeena K Saiju	Christeena	Christeena	Christeena	Christeena
23.	Denna Shijo	Denna	Denna	Denna	Denna
24.	Dona David	Dona	Dona	Dona	Dona
25.	Harapeiya H	Harapeiya	Harapeiya	Harapeiya	Harapeiya

PRINCIPAL	DEU Convenor	DEU Secretary



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## ST. GREGORIOS DENTAL COLLEGE, CHELAD

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA- 686681

TOPIC: Histology of Cell Biopsy

Sl no.	Name of participant	Day 1 16-2-23	Day 2 17-2-23	Day 3 18-2-23	Day 4 19-2-23
26	Jeny Macy Joe	Jeny Macy	Jeny Macy	Jeny Macy	Jeny Macy
27	Khadeeja shifana	Khadeeja	Khadeeja	Khadeeja	Khadeeja
28	Lois. J. Samuel	Lois	Lois	Lois	Lois
29	Harinya Leo Paul	Harinya	Harinya	Harinya	Harinya
30	Meera Dinesh	Meera	Meera	Meera	Meera
31	Money V.B	Money		Money	Money
32	Mounika G	Mounika		Mounika	Mounika
33	Neethan Jacob	Neethan	Neethan	Neethan	
34	Nidhi elizabeth babu	Nidhi	Nidhi	Nidhi	
35	Niyona Suchesh	Niyona	Niyona	Niyona	Niyona
36	Parvitha Pardeep	Parvitha	Parvitha	Parvitha	
37	Pooja T.R	Pooja	Pooja	Pooja	Pooja
38	Ramgovindh	Ramgovindh	Ramgovindh	Ramgovindh	Ramgovindh
39	Rija Ann Jacob	Rija	Rija	Rija	Rija
40	Sapnil M.S	Sapnil	Sapnil	Sapnil	Sapnil
41	Vandhana.S	Vandhana	Vandhana	Vandhana	Vandhana
42	Vandana.S	Vandana	Vandana	Vandana	Vandana
43	Senthy Sugunan	Senthy	Senthy	Senthy	Senthy

		
PRINCIPAL	DEU Convenor	DEU Secretary




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## BROCHURE

**ST. GREGORIOS  
DENTAL COLLEGE**   
CHELAD

 **ADD-ON**  
**HISTOLOGY  
CELL BIOLOGY**

DEPT. OF ANATOMY & DENTAL EDUCATION UNIT

**06 -09  
FEBRUARY 2023  
8.30 AM**

**1ST YEAR BDS  
STUDENTS**

**Dr. NIMA M KALAPURA**  
RESOURCE PERSON



# ST.GREGORIOS DENTAL COLLEGE

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## CERTIFICATE





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## PHOTOS



PHOTOGRAPH OF ADD-ON COURSE- 'HISTOLOGY AND CELL BIOLOGY'





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## IMPLANTOLOGY

From  
Head of the Department  
Department of Prosthodontics and Crown and Bridge  
St. Gregorios Dental College, Chelad

To  
The Principal  
St. Gregorios Dental College, Chelad

Subject; Request letter for conducting IMPLANTOLOGY certificate program for Prosthodontic PG students.

Respected Sir,

We are planning to conduct an add on course for Prosthodontic PG students entitled IMPLANTOLOGY on every Tuesdays from 07.02.2023 onwards for 6 months in the Department of Prosthodontics and Crown and Bridge. Details of the program are enclosed here for your reference.

Requesting you to kindly give us permission and guide us to conduct the program.

Thanking you,  
Yours sincerely,



Dr. George Francis  
Professor and Head of the Department  
Department of Prosthodontics and Crown and Bridge

**ST. GREGORIOS DENTAL COLLEGE**

**CHELAD, KOTHAMANGALAM**

SGDC/ADD/004/2023

04/02/2023

**CIRCULAR**

Subject: Certificate course on Implantology for Prosthodontic PG students.

This is to inform you that an add on course for Prosthodontic PG students entitled Implantology will be conducted on every Tuesdays from 07.02.2023 onwards for 6 months in the Department of Prosthodontics and Crown and Bridge.

For further reference reach out to Dr. Paul Kariyatty.



**PRINCIPAL**

**PRINCIPAL**  
St. Gregorios Dental College  
Chelad, Kerala - 686 681

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All departments

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## **DEPARTMENT OF PROSTHODONTICS AND CROWN AND BRIDGE**

### **IMPLANTOLOGY**

Venue: St. Gregorios Dental College

Date/time: From 07.02.2023

#### **Course syllabus:**

Implants in dental practice.

#### **Preamble:**

This comprehensive program was designed to narrow the gap that exists between theoretical knowledge and practical application through a wide variety of learning modalities: lectures, hands-on workshops, and clinical exposure. In the carefully chosen curriculum, participants will delve deep into the intricacies of implant dentistry, from foundational concepts to state-of-the-art surgical techniques and strategies for patient management.

#### **Rationale of the course:**

This course is designed for the Prosthodontic Postgraduate students, which equips them with all skills required to practice implant dentistry. It will combine lectures with clinical exposure under the mentorship of renowned implantologist Dr. Bijo John, where the participant will treat 8 patient cases to gain practical experience.

#### **Aim:**

The course seeks to provide the Prosthodontic Postgraduate student with the necessary knowledge and skills to competently carry out the implant procedures and place it effectively in their professional practice.

#### **Eligible participants:**

Prosthodontic PG students

#### **Course duration:**

- Total 72 hours
- 24 sessions (3 hours each)



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## COURSE SCHEDULE

- 2 Surgical and 2 Prosthetic Modules
- 30 hours of Theory
- 6 hours of Hands-on Training
- 36 hours of Clinical Training

**Mode of delivery:** Offline mode

**Course coordinator:** Dr. Paul Kariyatty

**Course Faculty:** Dr. Bijo John and Dr. George Francis



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## COURSE CONTENT (SYLLABUS)

- Basic biology and anatomy in relation to implant therapy
  - Surgical procedures when placing a single implant into a healed site and the required level of clinical skills to perform such treatment
  - Surgical template construction
  - Simple flap design
  - Basic suturing techniques
  - An overview of basic bone grafting
  - Effective patient communication and the importance of receiving consent prior to implant placement
  - How to interpret findings from radiological examination
  - Clinical assessment of a patient's suitability for implants
  - How indications and contraindications may affect treatment options
  - Basic instrumentation required for surgical placement of implants
  - Clinical protocols and techniques associated with implant placement
  - Provisionalisation during healing
  - Final Prosthesis fabrication and cementation
  - Guidelines to correct implant maintenance
- 
- Participants must place a minimum of 8 implants under the guidance of the faculty and restore them.
  - Participants must attend all the 4 modules spread over 6 months.
  - Participants will be provided with 8 Dentium Implants and 8 abutments. The prosthetic components will be lent during the modules on case requirement basis.



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## **POST EVENT REPORT**

The Implantology Course, spanning from February 7th, 2023, to July 25th, 2023, was conducted to equip postgraduate students with comprehensive training in implant dentistry. The course was led by Dr. Bijo John and included weekly lecture sessions covering implant anatomy, treatment planning, surgical techniques, and considerations in prosthodontics. Hands-on workshops included the improvement of surgical skills and techniques of implant placement using simulation models. Moreover, the participants treated 8 patients under the guidance of Dr. Bijo John. In this manner, participants were able to gain substantial clinical experience in all phases of patient care. This course stimulated a knowledge-sharing environment and built up more confidence and competence in implant procedures for the participants. Such broad-based training encapsulates the significance of this course in preparing Prosthodontic Postgraduate students to competently integrate implant dentistry into professional life.



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## **FEEDBACK FORM**

### **1. Overall Satisfaction:**

- Extremely Satisfied
- Very Satisfied
- Somewhat Satisfied
- Not Satisfied

### **2. Content Relevance:**

- Highly Relevant
- Relevant
- Somewhat Relevant
- Not Relevant

### **3. Quality of Presentations:**

- Excellent
- Good
- Fair
- Poor

### **4. Hands-On Workshop Experience:**

- Excellent
- Good
- Fair
- Poor





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## 5. Organization and Logistics:

- Excellent
- Good
- Fair
- Poor

## 6. Faculty Expertise and Interaction:

- Excellent
- Good
- Fair
- Poor

7. **What aspects of the event did you find most beneficial?**

8. **Were there any topics or areas that you felt could have been covered in more detail?**

9. **Did you find the hands-on workshops helpful in enhancing your practical skills?**

10. **How would you rate the overall organization and logistics of the event?**

11. **Do you have any suggestions for improving future events or topics you would like to see covered in similar workshops?**

**Additional Comments:**

12. **Please share any additional comments or suggestions you have about the event.**

**Participant Information (Optional):**

- **Name (Optional):**
- **Email (Optional):**

Thank you for your participation and valuable feedback! Your input will help us enhance future educational offerings. Please return the completed form to Dr. Paul Kariyatt.



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## **FEEDBACK ANALYSIS**

The feedback regarding the Implantology Course from participants was an overwhelming thank you for a very valuable learning experience. Many felt the knowledge imparted during the lecture sessions was immense, clearly explained, and relevant to clinical practice. The hands-on workshops were commended highly for the quality of skills and techniques learnt. Participants appreciated the opportunity to treat patients under the guidance of Dr. Bijo John, found the experience to be invaluable, and stated that they had been properly supported in the process. There were very few suggestions for further improvement; some mentioned more practical sessions and guest speakers. Overall, most participants praised the course for helping them gain confidence and competence in implant dentistry.



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## ASSIGNMENT

- 1. Which of the following is NOT a component of a dental implant?**
  - A) Implant body
  - B) Abutment
  - C) Crown
  - D) Osseointegration
- 2. What is the primary purpose of flap design in implant surgery?**
  - A) To expose the underlying bone
  - B) To enhance aesthetics
  - C) To create space for the implant
  - D) To improve healing
- 3. Which imaging technique is commonly used for preoperative assessment in dental implantology?**
  - A) Panoramic radiograph
  - B) MRI
  - C) PET scan
  - D) Echocardiography
- 4. Which type of bone graft material is harvested from the patient's own body?**
  - A) Allograft
  - B) Xenograft
  - C) Autograft
  - D) Synthetic graft
- 5. What is osseointegration?**
  - A) Formation of new bone around the implant
  - B) Integration of soft tissue with the implant
  - C) Rejection of the implant by the body
  - D) None of the above
- 6. Which of the following is NOT a prosthetic option for dental implants?**
  - A) Single crown
  - B) Fixed partial denture
  - C) Full metal denture
  - D) Removable overdenture



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**7. What is the primary cause of peri-implantitis?**

- A) Poor oral hygiene
- B) Overloading of the implant
- C) Allergy to implant materials
- D) Improper flap design

**8. What is the recommended timeline for loading an implant with a fixed prosthesis in immediate loading protocols?**

- A) 6 months after implant placement
- B) 3 months after implant placement
- C) Immediately after implant placement
- D) 1 year after implant placement

**9. Which digital technology is commonly used for guided implant surgery?**

- A) CAD/CAM
- B) 3D printing
- C) Cone-beam computed tomography (CBCT)
- D) Intraoral scanner

**10. What is the purpose of guided bone regeneration (GBR) in implantology?**

- A) To enhance osseointegration
- B) To increase soft tissue volume
- C) To regenerate lost bone
- D) To prevent peri-implantitis



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## **Answer key:**

1. C) Crown
2. A) To expose the underlying bone
3. A) Panoramic radiograph
4. C) Autograft
5. A) Formation of new bone around the implant
6. C) Full metal denture
7. A) Poor oral hygiene
8. C) Immediately after implant placement
9. C) Cone-beam computed tomography (CBCT)
10. C) To regenerate lost bone



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## PARTICIPANTS LIST



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UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ  
CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA - 686681

Department: **PROSTHODONTICS AND ORAL AND MAXILLOFACIAL SURGERY**

Course: **IMPLANTOLOGY - Add on course** [4/2/23 - 25/7/23]

Sl. No.	Name of Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1	TINTU PAUL	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2	DR. JASMINE CYRIL	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
3	OPRIKA DIVYA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
4	AISHWARYA ULATHI	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
5	DR. JISON	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
6	DR. ANJAN ARAVIND	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
7	DR. NEELU	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
8	DR. DIVYA	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
9	DR. AISHWARYA VIKRAMASARATHY	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
10																										

PRINCIPAL	DEU Convener	DEU Secretary



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## BROCHURE

**ST. GREGORIOS  
DENTAL COLLEGE**   
CHELAD

**FEB 2023**

**07 ONWARDS**

COLLEGE AUDITORIUM

**72 HOURS  
24 SESSIONS**

ORGANIZED BY  
DEPT. OF PROSTHODONTICS &  
IMPLANTOLOGY  
DENTAL EDUCATION UNIT



**IMPLANTOLOGY**

**ADD ON COURSE  
FOR POST GRADUATES - PROSTHODONTICS**

TIME  
**08.00 AM ONWARDS**

Phone : 0485-2572531, 532, 9188952016, 9188952017

Email : [sgdc@rediffmail.com](mailto:sgdc@rediffmail.com), Web : [sgdc.ac.in](http://sgdc.ac.in)



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## CERTIFICATE

  
  
**ST. GREGORIOS DENTAL COLLEGE**  
CHELAD

**Department of Prosthodontics and Crown and Bridge  
&  
Dental Education Unit**


### IMPLANTOLOGY

Certificate of Merit

THIS CERTIFICATE IS PROUDLY PRESENTED TO

*Dr. TINTU PAUL*

for successfully completing 30 hours of the add-on course entitled IMPLANTOLOGY  
from **7.02.2023**..... conducted by the Dental Education Unit in association with the Department of  
Prosthodontics and Crown and Bridge.

  
**Prof. Dr. Jain Mathew**  
PRINCIPAL

  
**Prof. Dr. George Francis**  
HOD

  
**Dr. Allu Baby**  
DEU CONVENER

ADD-ON  
COURSE





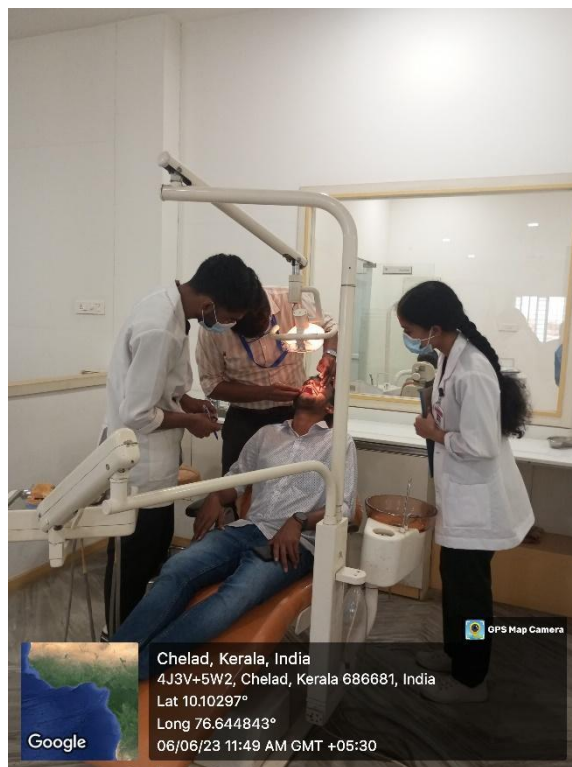
# ST.GREGORIOS DENTAL COLLEGE

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA - 686681

(AFFILIATED TO KERALA UNIVERSITY OF HEALTH SCIENCES)

## PHOTOS



PHOTOGRAPH OF ADD ON COURSE- 'IMPLANTOLOGY'



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## **IMPROVE YOUR BOND TO COMPOSITE**

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Phone : 0485-2572531, 532, 9188952016, 9188952017

Email : [sgdc@rediffmail.com](mailto:sgdc@rediffmail.com), Web : [sgdc.ac.in](http://sgdc.ac.in)

From  
Head of the Department  
Department of Conservative Dentistry and Endodontics  
St. Gregorios Dental College, Chelad

To  
The Principal  
St. Gregorios Dental College, Chelad

Subject: Request letter for conducting IMPROVE YOUR BOND TO COMPOSITE certificate program for postgraduate students.

Respected Sir,

We are planning to conduct an add on course for postgraduate students on the topic entitled IMPROVE YOUR BOND TO COMPOSITE on 23.05.2023-26.05.2023 in the college auditorium. Details of the program are enclosed here for your reference.

Requesting you to kindly give us permission and guide us to conduct the program.

Thanking you,  
Yours sincerely,



Dr. Robin Theruvil  
Professor

Department of Conservative Dentistry and Endodontics

**ST. GREGORIOS DENTAL COLLEGE**

**CHELAD, KOTHAMANGALAM**

SGDC/ADD/005/2023

21/05/2023

**CIRCULAR**

Subject: Certificate course on Improve Your Bond to Composite for postgraduate students.

This is to inform you that an add on course for postgraduate students is being organised by the Department of Conservative Dentistry and Endodontics on topic entitled Improve Your Bond To Composite from 23.05.2023-26.05.2023 in the college auditorium

For further reference reach out to Dr. Aksa Mariam Varghese



**PRINCIPAL**

Copy to:

Notice board

Office

All departments

Library



PRINCIPAL  
St. Gregorios Dental College  
Chelad, Kerala - 686 681



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## DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS

### IMPROVE YOUR BOND TO COMPOSITE

Venue: St. Gregorios Dental College

Date/time: 23.05.2023-26.05.2023

#### **Course syllabus:**

#### **IMPROVE YOUR BOND TO COMPOSITE**

#### **Preamble:**

The goal of this course is to give dental practitioners a thorough understanding of the bonding processes for composite materials used in restorative dentistry, as well as practical abilities in these areas. Composites are essential to contemporary dentistry because they provide adaptable and beautiful solutions for a range of clinical situations. Participants in this course will examine the newest developments in bonding agents and procedures, delve into the fundamentals of adhesive bonding, and get practical experience through case studies from clinical settings and simulations. This training intends to enable participants to achieve predictable and long-lasting bonding effects, hence boosting patient satisfaction and practice success.

#### **Rationale of the course:**

The course's justification stems from the basic significance of adhesive bonding methods in contemporary restorative dentistry. Composite materials, which offer adaptable, aesthetically pleasing, and minimally invasive solutions for a variety of therapeutic applications, have completely changed the dentistry profession. Nonetheless, the clinician's proficiency in adhesive bonding principles—such as substrate preparation, adhesive selection, and technique execution—is crucial to the success of composite procedures. By equipping dental professionals with thorough knowledge and useful abilities in composite bonding procedures, this course seeks to meet this urgent need.

**Aim:** In order to enable dental professionals to practice restorative dentistry with predictable, long-lasting, and aesthetically pleasing results, the course aims to provide them with thorough knowledge and hands-on practice in adhesive bonding techniques for composite restorations.

**Eligible participants:** Postgraduate students

**Course duration:** Total 30 hours

**Mode of delivery:** Offline mode

**Course coordinator:** Dr. Aksa Mariam Varghese

**Course faculty:** Dr. Manikya Arabolu



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## COURSE SCHEDULE

**DAY 1: 23/05/2023**

<b>MODULE 1: OVERVIEW OF DENTAL COMPOSITES</b>		
Definition and types of dental composites	Dr. Manikya Arabolu	8:00am – 9:00am
Importance of bonding in restorative dentistry	Dr. Manikya Arabolu	9:00am – 10:00am
Clinical applications of dental composites	Dr. Manikya Arabolu	10:00am – 10:30am

<b>MODULE 2: PRINCIPLES OF DENTAL BONDING</b>		
Adhesion mechanisms in dentistry (mechanical, chemical)	Dr. Manikya Arabolu	10:30am – 11:00am
Interactions between dental adhesives and tooth structure	Dr. Manikya Arabolu	11:00am – 11:30am
Factors influencing bond strength in dental composites	Dr. Manikya Arabolu	11:30am – 12:00pm

<b>MODULE 3: CHEMISTRY OF DENTAL ADHESIVES</b>		
Composition of dental adhesives (monomers, initiators, fillers)	Dr. Manikya Arabolu	12:00 – 12:30pm
Polymerization reactions in dental bonding	Dr. Manikya Arabolu	12:30 – 1:30pm
Role of different adhesive systems (etch-and-rinse, self-etch, universal adhesives)	Dr. Manikya Arabolu	1:30 – 2:00pm



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## MODULE 4: SURFACE PREPARATION IN DENTISTRY

Tooth surface cleaning techniques (pumice, polishing pastes)	Dr. Manikya Arabolu	2:30 – 3:00pm
Enamel and dentin conditioning (acid etching, priming)	Dr. Manikya Arabolu	3:00 – 3:30pm
Moisture control and its impact on bonding efficacy	Dr. Manikya Arabolu	3:30 – 4:30pm

**DAY 2: 24/05/2023**

## MODULE 5: ADHESIVE BONDING TECHNIQUES

Application procedures for dental adhesives	Dr. Manikya Arabolu	8:00 – 9:00am
Light curing protocols and parameters	Dr. Manikya Arabolu	9:00 – 9:30am
Bonding protocols for various clinical situations (direct restorations, indirect restorations)	Dr. Manikya Arabolu	9:30 – 10:30am

## MODULE 6: COMPOSITE PLACEMENT AND LAYERING

Techniques for composite restoration placement (incremental, bulk-fill)	Dr. Manikya Arabolu	10:30am – 11:00am
Layering techniques for achieving optimal esthetics and mechanical properties	Dr. Manikya Arabolu	11:00am – 11:30am
Management of polymerization shrinkage in composite restorations	Dr. Manikya Arabolu	11:30am – 12:00pm





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<b>MODULE 7: MECHANICAL PROPERTIES OF DENTAL COMPOSITES</b>		
Strength, modulus, and wear resistance of dental composites	Dr. Manikya Arabolu	12:00 – 12:30pm
Factors affecting mechanical properties (filler content, particle size)	Dr. Manikya Arabolu	12:30 – 1:00pm
Clinical implications of mechanical properties in dental restorations	Dr. Manikya Arabolu	1:00 – 1:30pm

<b>MODULE 8: BOND STRENGTH TESTING METHODS</b>		
Microtensile bond strength testing	Dr. Manikya Arabolu	2:30 – 3:00pm
Shear bond strength testing	Dr. Manikya Arabolu	3:00 – 3:30pm
Factors influencing bond strength test results	Dr. Manikya Arabolu	3:30 – 4:30pm

## DAY 3: 25/05/23

<b>MODULE 9: BIOCOMPATIBILITY AND LONGEVITY OF DENTAL COMPOSITES</b>		
Teeth Whitening	Dr. Manikya Arabolu	8:00 – 9:00am
Gingival Contouring	Dr. Manikya Arabolu	9:00 – 9:30am
Lip Repositioning	Dr. Manikya Arabolu	9:30 – 10:30am

<b>MODULE 10: POST-OPERATIVE SENSITIVITY AND MARGINAL INTEGRITY</b>		
Causes and management of post-operative sensitivity	Dr. Manikya Arabolu	10:30 – 11:00am
Assessment of marginal integrity in composite restorations	Dr. Manikya Arabolu	11:00 – 11:30am
Strategies for minimizing microleakage and secondary caries	Dr. Manikya Arabolu	11:30 – 12:00pm



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<b>MODULE 11: ADHESIVE FAILURE AND REPAIR</b>		
Common reasons for adhesive failure in dental composites	Dr. Manikya Arabolu	12:00 – 12:30pm
Repair techniques for failed composite restorations	Dr. Manikya Arabolu	12:30 – 1:00pm
Surface preparation and bonding protocols for composite repair	Dr. Manikya Arabolu	1:00 – 1:30pm

<b>MODULE 12: EMERGING TRENDS IN DENTAL BONDING</b>		
Advances in adhesive technology (nano-adhesives, bioactive adhesives)	Dr. Manikya Arabolu	2:30 – 3:00pm
Innovative bonding techniques (selective enamel etching, self-etch primers)	Dr. Manikya Arabolu	3:00 – 3:30pm
Future directions in dental composite materials and bonding strategies	Dr. Manikya Arabolu	3:30 – 4:30pm

## DAY 4: 26/05/23

<b>MODULE 13: ETHICAL AND REGULATORY CONSIDERATIONS</b>		
Informed consent and patient communication in dental bonding procedures	Dr. Manikya Arabolu	8:00 – 9:00am
Compliance with regulatory standards (FDA regulations, ADA guidelines)	Dr. Manikya Arabolu	9:00 – 9:30am
Ethical considerations in the selection and use of dental materials	Dr. Manikya Arabolu	9:30 – 10:30am

HANDS ON	10:30 – 2:00pm
CASE BASED DISCUSSION	2:30 – 3:30pm



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## **POST EVENT REPORT**

The course entitled “IMPROVE YOUR BOND TO COMPOSITE” was conducted at St. Gregorios Dental College on 23<sup>rd</sup> May 2023 to 26<sup>th</sup> May 2023. The dental bonding workshop on composite bonding was a great success, giving participants a thorough understanding of the concepts, methods, and uses of dental bonding. The information and abilities required for successful composite restorations were imparted to the participants through their increased understanding of adhesive bonding processes, surface preparation strategies, and the chemistry of dental adhesives. Attendees learned how to handle clinical issues such post-operative sensitivity and marginal integrity as well as the most recent developments in dental bonding technology through captivating lectures, practical demonstrations, and lively conversations by Dr. Manikya Arabolu. A greater understanding of the significance of patient communication and regulatory compliance in dental practice was fostered by the addition of clinical case studies and ethical issues to the learning process. Overall, the response on the course was favourable. The course was attended by postgraduate students from St. Gregorios Dental College with a keen interest in getting to know more about composite resins. Continuous feedback was solicited from participants through interactive sessions and post-event surveys.



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## **FEEDBACK FORM**

### 1. **Overall Course Evaluation:**

How would you rate the overall organization and structure of the course?

- Excellent
- Very Good
- Good
- Fair
- Poor

Did the course meet your expectations?

- Yes
- No

### 2. **Content and Presentation:**

Rate the quality of the lectures and presentations.

- Excellent
- Very Good
- Good
- Fair
- Poor

Were the topics covered relevant and beneficial to your learning?

- Yes
- No

Were the explanations clear and easy to understand?

- Yes
- No

### 3. **Hands-on Sessions:**

Rate the effectiveness of the hands-on sessions and practical demonstrations.

- Excellent
- Very Good
- Good
- Fair
- Poor

Did the hands-on sessions enhance your understanding and skills in isolation and magnification techniques?

- Yes
- No

### 4. **Instructors and Facilitators:**

How would you rate the knowledge and expertise of the instructors?



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- Excellent
- Very Good
- Good
- Fair
- Poor

Were the instructors approachable and responsive to questions?

- Yes
- No

5. **Course Materials:**

Were the course materials (handouts, presentations) helpful in your learning?

- Yes
- No

Do you have any suggestions for improving the course materials?

6. **Logistics and Facilities:**

How would you rate the logistics and facilities provided during the course?

- Excellent
- Very Good
- Good
- Fair
- Poor

Were the venue and equipment suitable for the hands-on sessions?

- Yes
- No

7. **Suggestions for Improvement:**

What aspects of the course did you find most valuable?

Are there any areas of the course that you think could be improved?

Do you have any suggestions for future topics or speakers?

8. **Additional Comments:**

Please share any additional comments or feedback about your experience in the course.

9. **Would you recommend this course to your peers?**

- Yes
- No

10. **Participant Information (Optional):**

**Name (Optional):**

**Email (Optional):**

Thank you for your participation and valuable feedback! Your input will help us enhance future educational offerings. Please return the completed form to Dr. Aksa Mariam Varghese

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## **FEEDBACK ANALYSIS**

The experiential learning opportunities were highly appreciated by the attendees, who saw them as crucial for transforming abstract theoretical ideas into useful abilities that they could utilise in their clinical work. Group discussions and case studies are examples of interactive features that promote participation and encourage peer learning. The skill and aptitude of the speakers in answering questions were highly praised. Overall course satisfaction was good, with many participants expressing gratitude for the opportunity to further their professional development in the field of restorative dentistry as well as the insightful knowledge they had learned. However, some participants suggested improvements to the course's organisation and logistics.



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## ASSIGNMENT

- 1. Which of the following bonding mechanisms is primarily responsible for adhesion between dental adhesives and tooth structure?**
  - A) Covalent bonding
  - B) Van der Waals forces
  - C) Hydrogen bonding
  - D) Mechanical interlocking
- 2. What is the role of acid etching in surface preparation for dental composite bonding?**
  - A) Removes debris and contaminants from the tooth surface
  - B) Creates micro-retentive features in enamel for adhesive penetration
  - C) Enhances chemical bonding between adhesive and dentin
  - D) Increases surface roughness for mechanical interlocking
- 3. Which type of adhesive system involves simultaneous etching and priming of enamel and dentin?**
  - A) Etch-and-rinse adhesive
  - B) Self-etch adhesive
  - C) Selective enamel etching
  - D) Total-etch adhesive
- 4. Which factor is critical for achieving adequate bond strength in dental composites?**
  - A) Adhesive viscosity
  - B) Polymerization shrinkage
  - C) Light curing intensity
  - D) Moisture control
- 5. What is the primary purpose of incremental composite placement during restoration procedures?**
  - A) Minimize polymerization shrinkage
  - B) Enhance esthetics
  - C) Improve mechanical properties
  - D) Reduce chairside time
- 6. Which bond strength testing method involves applying tensile forces to a bonded specimen until failure occurs?**
  - A) Microtensile bond strength testing
  - B) Shear bond strength testing
  - C) Push-out bond strength testing
  - D) Peel bond strength testing



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- 7. What is the main challenge associated with post-operative sensitivity in composite restorations?**
- A) Marginal discrepancy
  - B) Inadequate bonding
  - C) Polymerization shrinkage
  - D) Secondary caries formation
- 8. Which emerging trend in dental bonding involves the incorporation of nanoparticles to enhance adhesive properties?**
- A) Self-etch adhesives
  - B) Nano-adhesives
  - C) Bioactive adhesives
  - D) Universal adhesives
- 9. What is the recommended protocol for repairing a failed composite restoration?**
- A) Remove all existing composite and apply new bonding agent
  - B) Roughen the surface, apply bonding agent, and add new composite incrementally
  - C) Apply a bonding agent directly over the existing composite and add new composite
  - D) Replace the entire restoration with a new composite material
- 10. Which regulatory body sets standards and guidelines for dental materials and procedures in the United States?**
- A) FDA (Food and Drug Administration)
  - B) ADA (American Dental Association)
  - C) ISO (International Organization for Standardization)
  - D) ASTM (American Society for Testing and Materials)





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**Answer key:**

- A) Covalent bonding
- B) Creates micro-retentive features in enamel for adhesive penetration
- B) Self-etch adhesive
- D) Moisture control
- A) Minimize polymerization shrinkage
- A) Microtensile bond strength testing
- B) Inadequate bonding
- B) Nano-adhesives
- B) Roughen the surface, apply bonding agent, and add new composite incrementally
- A) FDA (Food and Drug Administration)



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## ATTENDANCE LIST



**ST. GREGORIOS DENTAL COLLEGE, CHELAD**

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCROUZ

CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA- 686681

TOPIC: Improve your Bond to Composite.

Sl no.	Name of participant	23/5/23 Day 1	24/5/23 Day 2	25/5/23 Day 3	26/5/23 Day 4
1	Dr: Anu Mariya Sunny	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2	Dr: Lisie P Mathur	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
3	Dr: Sarjin S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4	Dr: Priya Aravind	ARVJ	ARVJ	ARVJ	ARVJ
5	Dr: Divya Subhramanyam	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
6	Dr: Nisha C. Joseph	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
7	Dr: Vidhya K	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8	Dr: Nela	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
9	Dr: vidya .S.L.	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
PRINCIPAL	DEU Convenor	DEU Secretary



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## BROCHURE

# IMPROVE *Your bond to* COMPOSITE

*add on course for post graduates*

### RESOURCE PERSON



DR. MANIKYA ARABOLU



**23-26  
MAY  
2023**

ORGANIZED BY  
DEPT. OF CONSERVATIVE & ENDODONTICS  
DENTAL EDUCATION UNIT

**TIME : 08.00 AM ONWARDS**



# ST.GREGORIOS DENTAL COLLEGE

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## CERTIFICATE

**ST. GREGORIOS DENTAL COLLEGE, CHELAD**  
DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS  
IN ASSOCIATION WITH  
INTERNAL QUALITY ASSURANCE CELL AND DENTAL EDUCATION UNIT



## CERTIFICATE OF MERIT

THIS CERTIFICATE IS AWARDED TO

Dr. Lissie P Mathew

FOR SUCCESSFULLY COMPLETING 30 HOURS OF ADD ON COURSE ENTITLED "IMPROVE  
YOUR BOND TO COMPOSITE" ORGANISED BY THE DEPARTMENT OF CONSERVATIVE  
DENTISTRY AND ENDODONTICS IN ASSOCIATION WITH INTERNAL QUALITY  
ASSURANCE CELL AND DENTAL EDUCATION UNIT FROM 23.05.23... TO 26.05.23.

Prof. Dr. Jain Mathew  
PRINCIPAL

Dr. Sauganth Paul  
IQAC Coordinator

Dr. Allu Baby  
Convener DEU

Dr. Aksha Mariam Varghese  
Course Coordinator



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## PHOTOS



PHOTOS OF ADD ON COURSE ENTITLED  
“IMPROVE YOUR BOND TO COMPOSITE”