UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

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

UPDATE ON ENDODONTIC DIAGNOSIS

Phone: 0485-2572531, 532, 9188952016, 9188952017

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 an online Add on program 'UPDATE ON ENDODONTIC DIAGNOSIS' for Final year Part 1 students

Respected Sir,

We are planning to conduct an online Add on course for Final year Part 1 students on the topic entitled 'UPDATE ON ENDODONTIC DIAGNOSIS' from 07.07.2020 to 10.07.2020 at the

College auditorium. Details of the program are enclosed here for your reference. Requesting you to give us permission and guide us to conduct the program

Thanking You

Yours sincerely'

Dr. Robin Theruvil

Professor

Department of Conservative Dentistry and Endodontics

CHELAD, KOTHAMANGALAM

SGDC/ADD/002/2020

01/07/2020

CIRCULAR

Subject: Certificate course on Update On Endodontic Diagnosis 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 Department of Conservative Dentistry and Endodontics on the topic entitled UPDATE

ON ENDODONTIC DIAGNOSIS from 07.07.2020 to 10.07.2020 through an online platform

For further reference, reach out to Dr. Allu Baby.

OS Denta

PRINCIPAL

PRINCIPAL St. Gregorios Dental College Chelad, Kerala - 624 684

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

DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS

UPDATE ON ENDODONTIC DIAGNOSIS

Date/Time: 07.07.2020 - 10.07.2020

Course Syllabus:

Update on endodontic diagnosis for undergraduate students

Preamble:

The foundation of a successful root canal therapy is endodontic diagnosis, which guides dentists in identifying pulpal and periapical diseases and complications as well as strategies for achieving successful treatment outcomes. In particular, we explore the nuances of endodontic diagnosis in this case by looking at foundational ideas, diagnostic techniques, and recent developments in the field. This course's primary goal is to give undergraduate dentistry students the required information and instruments to enable them to correctly diagnose endodontic issues and ensure that the treatment regimens they develop are supported by evidence.

Rationale of the course:

It is impossible to overstate the significance of accurate diagnoses since they guide treatment choices, which in turn affect how well patients recover and how satisfied they are overall with their care. As a result, the justification for this course on updating endodontic diagnosis could be viewed as varied and persuasive, much like consistent dental practice when it comes to improving clinical competencies, using new technology, and providing irreversible pulpitis treatment.

Aim:

The course is designed to augment undergraduate student's knowledge, skills, and attitude vital for excellence in endodontic diagnosis and preparing them solidly for their future dental practitioner careers.

Eligible participants: Final year Part 1 students

Course duration: Total 30 hours

Mode of delivery: Online mode (Zoom Meeting)

Course coordinator: Dr. Robin Theruvil

Course faculty: Dr. Joy Mathew and faculties of Department of Conservative Dentistry And

Endodontics

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COURSE SCHEDULE

07.07.2020

MODULE 1: INTRODUCTION TO ENDODONTIC IDENTIFICATION		
Overview of endodontic Diagnosis	Dr. Robin Theruvil	8.30am-9.00am
Importance accurate diagnosis	Dr. Robin Theruvil	9.00am-9.30am
Diagnostic ranking	Dr. Robin Theruvil	10.00am-11.am

MODULE 2: CLINICAL EXAMINATION TECHNIQUES		
Demonstration of clinical examination	Dr. Joy Mathew	11.30am-12.30pm
Assessment of pulp vitality	Dr. Joy Mathew	12.30pm-1.00pm
Interpretation of clinical findings and	Dr. Joy Mathew	1.00pm-1.30pm
differential diagnosis		

MODULE 3: PULPAL AND PERIAPICAL PATHOLOGY		
Pathophysiology of pulp and periapical diseases	Dr. Joy Mathew	2.00pm-3.00pm
Identification	Dr. Joy Mathew	3.00pm-4.00pm
Differential diagnosis	Dr. Joy Mathew	4.00pm-4.30pm

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08.07.2020

MODULE 4: PULP VITALITY TESTING		
Overview of pulp vitality testing	Dr. Joy Mathew	8.30am- 9.00am
Types of tests	Dr. Joy Mathew	9.00am- 10.00am
Clinical applications	Dr. Joy Mathew	10.00am- 11.00am

MODULE 5: RADIOGRAPHIC IMAGING IN ENDODONTIC DIAGNOSIS		
Principles of periapical radiograph	Dr. Joy Mathew	11.00am-
		12.00pm
Interpretation of radiographic findings	Dr. Joy Mathew	12.00pm-
		1.00pm
Introduction to cone-beam computed	D. I. M.d.	1.00
tomography (CBCT) in endodontics	Dr. Joy Mathew	1.00pm- 1.30pm

MODULE 6: ADVANCED DIAGNOSTIC TECHNOLOGIES		
Overview of advanced diagnostic technologies	Dr. Midhun Paul	2.30pm- 3.30pm
Emerging technologies in endodontic diagnosis	Dr. Saira George	3.30pm- 4.30pm

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09.07.2020

MODULE 7: TREATMENT PLANNING AND MULTIDISCIPLINARY CONSIDERATIONS		
Principles of treatment planning inendodontics	Dr. Joy Mathew	8.30am- 9.00am
Multidisciplinary considerations in endodontictreatment	Dr. Joy Mathew	9.00am- 10.00am
Integration of diagnostic findings with patienthistory and clinical presentation	Dr. Joy Mathew	10.00am- 11.00am

MODULE 8: DIFFERENTIAL DIAGNOSIS AND CASE-BASED LEARNING		
Analysis of clinical cases illustrating commonendodontic and non-endodontic sources of dental pain	Dr. Joy Mathew	11.30am-12.30pm
Group discussions on differential diagnosisand treatment planning considerations	Dr. Joy Mathew	12.30pm-1.30pm

MODULE 9: SPECIAL TESTS AND PROCEDURES		
Additional diagnostic tests	Dr. Joy Mathew	2.00pm- 3.00pm
Interpretation of diagnostic tests	Dr. Joy Mathew	3.00pm- 4.00pm

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10.07.2020

MODULE 10: DIAGNOSTIC CHALLENGES IN SPECIAL POPULATIONS		
Considerations for special patients	Dr. Joy Mathew	8.30am- 9.30am
Modifications of diagnostic techniques	Dr. Joy Mathew	9.30am- 10.30am
Management of endodontic emergencies inspecial populations	Dr. Joy Mathew	10.30am- 11.30am

MODULE 11: REFERRED PAIN AND COMPLEX DIAGNOSIS		
Understanding referred pain phenomena	Dr. Allu Baby	12.00pm-12.30pm
Differential diagnosis of referred pain fromnon-dental sources	Dr. Midhun Paul	12.30pm-1.00pm
Advanced diagnostic techniques	Dr. Midhun Paul	1.00pm-1.30pm

MODULE 12: DEMONSTRATION		
Demonstration of RCT	Dr. Allu Baby	2.00pm -2.30pm
Reflection on person all earninggoals and objectives achieved	Dr. Allu Baby	2.30pm-3.00pm
Feedback and evaluation:soliciting input for courseimprovement	Dr. Midhun Paul	3.00pm-3.30pm

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POST EVENT REPORT

From July 7–10, 2024, the wildly popular 'Update on Endodontic Diagnosis' course took place. The program was given online in accordance with Covid rules. The final year part 1 undergraduate students from various colleges were the target audience for this item. Dr. Joy Mathew, the speaker, gave a presentation to dental professionals with the goal of enhancing their knowledge of the latest advancements in endodontic diagnostics and increasing their proficiency in detecting dental problems. The students who attended the program departed with renewed interest, practical knowledge, and assurance that they are better prepared to provide high-quality endodontic therapy. The audience responded well to the faculty's root canal procedure, which marked the program's conclusion.

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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

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3. Hands on session/demonstration

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

- Excellent
- Very Good
- Good
- Fair
- Poor

4. Instructions and facilitators

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

- 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?

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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. Allu

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FEEDBACK ANALYSIS

The feedback given by the students were analyzed based on their answers. Positive feedback was got from the undergraduates as well as the faculty. The program was found to be a success based on the report given by the students. Feedback forms and direct feedback from the students allowed getting a clear understanding of their perspectives. However, some students showed a desire for additional illustrations and case studies. A few students highlighted the difficulty of following certain terms. Overall, the students appreciated the clarity and organization of the program.

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ASSIGNMENT

- 1. What is the best imaging method for detecting periapical pathology in the field of endodontics?
 - a. Panoramic radiography
 - b. Periapical radiography
 - c. Cone-beam computed tomography (CBCT)
 - d. Magnetic resonance imaging (MRI)
- 2. Which one of the following is not a common symptom of inflammation in the pulp and periapical?
 - a. Prolonged sensitivity to hot or cold
 - b. Sudden pain
 - c. Swelling and tenderness of the gingiva
 - d. Pain on biting or chewing
- 3. Which diagnostic test is used to assess the vitality of the dental pulp?
 - a. Cold test
 - b. Heat test
 - c. Electric pulp test
 - d. All of the above
- 4. During endodontic diagnosis, why is it necessary to carry out the percussion test and palpation tests?
 - a. To determine irreversible pulpitis
 - b. To assess the mobility of the tooth
 - c. To evaluate the presence of periapical pathology
 - d. To identify cracked teeth or fractures

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- 5. Which of the subsequent choices doesn't cause false-positive results in pulp vitality tests?
 - a. Recent trauma to the tooth
 - b. Presence of intracanal medicaments
 - c. Use of hot or cold beverages
 - d. Necrotic pulp
- 6. This page contains the diagnostic test usually applied in evaluating dental pulp response tothermal stimuli?
 - a. Electric pulp testing
 - b. Cold test
 - c. Heat test
 - d. Transillumination
- 7. What is the main gain in utilizing cone-beam computed tomography (CBCT) compared toconventional radiography for endodontic diagnosis?
 - a. Lower radiation exposure
 - b. Higher resolution images
 - c. Reduced cost
 - d. Faster image acquisition
- 8. Which sufferings lead to the continuous pains, bothering even after omission of the rootcause, and frequently induce irreversible pulpitis?
 - a. Reversible pulpitis
 - b. Hyperplastic pulpitis
 - c. Pulp necrosis
 - d. Irreversible pulpitis

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- 9. Which of the following radiographic signs are most commonly presented in patients with apical periodontitis?
 - a. Widening of the periodontal ligament space
 - b. Radiopaque mass at the apex of the tooth
 - c. Loss of lamina dura
 - d. All of the above
- 10. The primary reason why vitality tests are performed on a suspect tooth is for what purposeduring endodontic diagnosis?
 - a. To confirm irreversible pulpitis
 - b. To determine the prognosis of the tooth
 - c. To assess the vitality of the dental pulp
 - d. To identify the extent of periapical involvemen

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Answer key:

- 1. c) Cone-beam computed tomography (CBCT)
- 2. c) Swelling and tenderness of the gums
- 3. d) All of the above
- 4. d) To identify cracked teeth or fractures
- 5. d) Existence of a necrotic pulp
- 6. b) Cold test
- 7. b) Higher resolution images
- 8. d) Irreversible pulpitis
- 9. Widening of the periodontal ligament space
- 10. To assess the vitality of the dental pulp

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ATTENDANCE LIST



ST. GREGORIOS DENTAL COLLEGE, CHELAD

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

TOPIC: UPDATE ON ENDODONTIC DIAGNOSIS (ONLINE)

DATE: 07.07.2020-10.07.2020

Sl no.	Name of participant
1	Aiswarya Narayanan
2	Akshay Raj M
3	Akshaya R Nath
4	Alias Biju
5	Ann Mary Jose
6	Ann Mary Paul
7	Anna Mary Saji
8	Aravind M
9	Arya Haridas
10	Ashly S Reny
11	Basil Jose
12	Farsana Muhammed P
13	Irene Thomas
14	Jipsa Bindu Prakash
15	Justline Jose
16	Kessiya Babu
17	Magi Xavier
18	Mayadas
19	Merin Varghese
20	Minna Mariya Jose
21	Nandu P
22	Nynu Fathima Sunil
23	Praise Jose
24	Prajyothi P P
25	Raghavi Rajan

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ST. GREGORIOS DENTAL COLLEGE, CHELAD

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

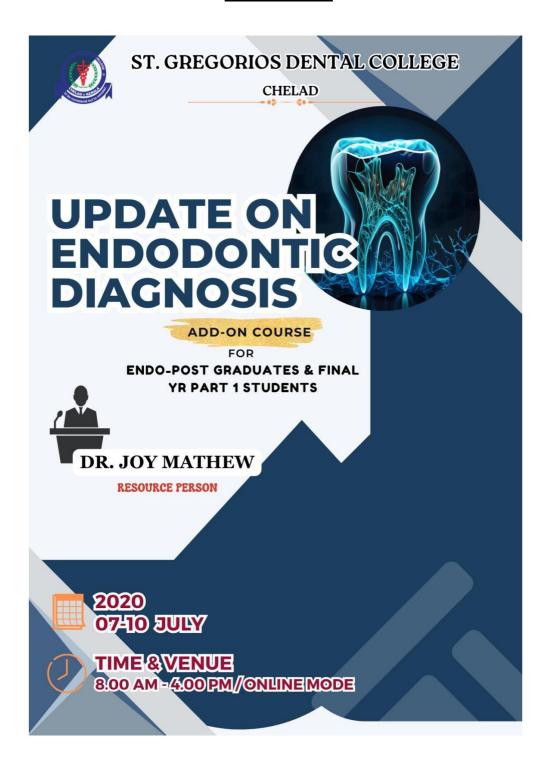
Sl no.	Name of participant
26	Richa K C
27	Richa Sherry
28	Rinni Rose Antony
29	Rose Maria Jaimon
30	Sangeetha Sasikumar
31	Sarin Anna Jojee
32	Shilpa Thomas
34	Sincy Vincent
33	Sneha K Antony
35	Sreelakshmi M S
36	Subina Rasheed
37	Sweety Maria George

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CERTIFICATE

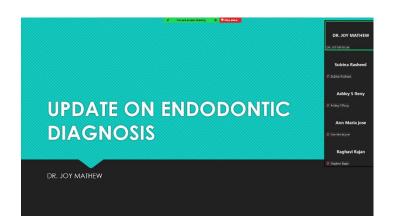


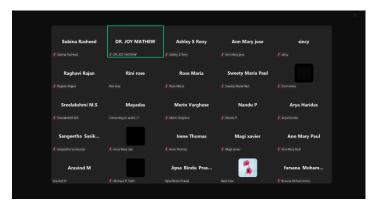
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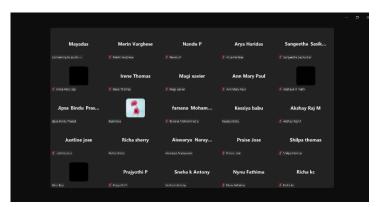
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PHOTO







Online Add-on program 'Update on Endodontic Diagnosis

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SEROLOGICAL ESTIMATION OF ENTERIC FEVER

Phone: 0485-2572531, 532, 9188952016, 9188952017

From

Department of Microbiology and General Pathology

St.Gregorios Dental College, Chelad

To

The Principal

St.Gregorios Dental College, Chelad

Subject: Request letter for conducting SEROLOGICAL ESTIMATION OF ENTERIC FEVER certificate program for Third year students.

Respected Sir,

We are planning to conduct an online add on course for Third year students on 'SEROLOGICAL ESTIMATION OF ENTERIC FEVER' from 10.08.2020-13.08.2020 via online platform(ZOOM). 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.

Nima M. Kalappura

Department of General Anatomy and Histology

CHELAD, KOTHAMANGALAM

SGDC/ADD/003/2020

07/08/2020

CIRCULAR

Subject: Certificate course on 'Serological Estimation Of Enteric Fever' for Third year students.

This is to inform you that an online add on course for Third year students is being organized by the Dental Education Unit and Department of Microbiology and General Pathology on topic entitled 'Serological Estimation Of Enteric Fever' from 10.08.2020-13.08.2020 via online platform(ZOOM).

For further reference reach out to Dr. Ranjima Abraham.

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DEU AND DEPARTMENT OF MICROBIOLOGY AND GENERAL **PATHOLOGY**

SEROLOGICAL ESTIMATION OF ENTERIC FEVER

Date/time: 10.08.2020-13.08.2020

Course syllabus:

Serological Estimation of Enteric Fever.

Preamble:

Enteric fever which is primarily caused by Salmonella enterica serovars Typhi and Paratyphi, remains a significant public health concern globally, especially in regions where access to clean water and sanitation is limited. This lecture aims to provide a comprehensive understanding of the serological techniques used in diagnosing enteric fever, focussing on their importance in combating this infectious disease.

Rationale of the course:

The lecture addresses a prevailing global health issue. By understanding serological techniques, participants can gain knowledge on diagnosis and monitoring of the disease effectively. This knowledge empowers healthcare professionals to combat enteric fever and its impact worldwide.

Aim:

The aim of this lecture is to equip participants with a comprehensive understanding of serological techniques for diagnosing and monitoring enteric fever. By the end, participants will be able to understand, interpret, and apply serological techniques relevant to their dental practice and patient care.

Eligible participants: Third year students

Course duration: Total 30 hours Mode of delivery: Online mode

Course coordinator: Ms. Ranjima Abraham

Course Faculty: Ms. Lincy Tomy and other staff from the Department of Microbiology and

General Pathology

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COURSE SCHEDULE

DAY 1: 10/08/2020

MODULE 1 INTRODUCTION TO ENTERIC FEVER		
Overview of enteric fever epidemiology and causative agents	Ms. Lincy Tomy	8.30am - 9.00am
Global burden and impact on public health	Ms. Lincy Tomy	9.00am- 9.30am
Historical context and prevalence trends	Ms. Lincy Tomy	10.00am- 10.30am

MODULE 2 ETIOLOGY AND PATHOGENESIS		
Detailed discussion on Salmonella enterica serovars Typhi and Paratyphi	Ms. Lincy Tomy	11.00am - 11.30am
Pathogenesis of enteric fever	Ms. Lincy Tomy	11.30am- 12.30pm
Host-pathogen interactions and immune response	Ms. Lincy Tomy	12.30pm- 1.30pm

MODULE 3 CLINICAL MANIFESTATIONS		
Symptoms, signs, and complications of enteric fever	Ms. Lincy Tomy	2.00pm - 2.30pm
Clinical presentation and differential diagnosis	Ms. Lincy Tomy	2.30pm-3.30pm
Disease progression and prognosis	Ms. Lincy Tomy	3.30pm-4.30pm

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DAY 2: 11/08/2020

MODULE 4 GASTRU SEROLOGICAL ASSAYS OVERVIEW		
Introduction to serological techniques for enteric fever diagnosis	Ms. Lincy Tomy	8.30am - 9.30am
Principles of serological assays	Ms. Lincy Tomy	9.30am- 10.00am
Classification and comparison of serological tests	Ms. Lincy Tomy	10.00am- 10.30am

MODULE 5 WIDAL TEST		
Detailed explanation of the Widal test procedure	Ms. Lincy Tomy	11.00am - 11.30am
Interpretation of Widal test results	Ms. Lincy Tomy	11.30am- 12.30pm
Variations in Widal test methodologies	Ms. Lincy Tomy	12.30pm- 1.30pm

MODULE 6 TYPHIDOT		
Principles and methodology of Typhidot assay	Dr. Vipin Vishwanathan	2.00pm - 2.30pm
Clinical utility and limitations of Typhidot in enteric fever diagnosis	Dr. Vipin Vishwanathan	2.30pm- 3.30pm
Comparative analysis with other serological tests	Dr. Vipin Vishwanathan	3.30pm- 4.30pm

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DAY 3: 12/08/2020

MODULE 7 ENZYME-LINKED IMMUNOSORBENT ASSAY (ELISA)		
Principles and applications of ELISA in enteric fever serology	Ms. Lincy Tomy	8.30am -9.00am
ELISA procedure and interpretation of results	Ms. Lincy Tomy	9.00am-9.30am
Types of ELISA variants used in enteric fever diagnosis	Ms. Lincy Tomy	9.30am-10.30am

MODULE 8 SAMPLE COLLECTION AND PROCESSING		
Techniques for collecting and handling serum samples	Dr. Vipin Vishwanathan	11.00am - 11.30am
Laboratory protocols for sample processing	Dr. Vipin Vishwanathan	11.30am- 12.30pm
Preservation and storage of samples for serological testing	Dr. Vipin Vishwanathan	12.30pm-1.30pm

MODULE 9 QUALITY CONTROL AND ASSURANCE		
Importance of quality assurance in serological testing	Ms. Lincy Tomy	2.00pm -2.30pm
Methods for ensuring accuracy and reliability of results	Ms. Lincy Tomy	2.30pm-3.30pm
External quality assessment schemes and proficiency testing	Ms. Lincy Tomy	3.30pm-4.30pm

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DAY 4: 13/08/2020

MODULE 10 CLINICAL APPLICATION AND INTERPRETATION		
Case studies illustrating the clinical application of serological estimation	Ms. Lincy Tomy	8.30am -9.00am
Interpretation of serological results in the context of patient management	Ms. Lincy Tomy	9.00am-9.30am
Integration of serological findings with other diagnostic modalities	Ms. Lincy Tomy	9.30am-10.30am

MODULE 11 ETHICAL CONSIDERATIONS AND BIOSAFETY			
Ethical principles in conducting serological testing	Ms. Lincy Tomy	11.00am -11.30am	
Biosafety measures for handling infectious samples	Ms. Lincy Tomy	11.30am-12.30pm	
Confidentiality and informed consent in serological assays	Ms. Lincy Tomy	12.30pm-1.30pm	

MODULE 12 FUTURE DIRECTIONS AND EMERGING TRENDS			
Discussion on advancements in serological techniques for enteric fever diagnosis	Dr. Vipin Vishwanathan	2.00pm -2.30pm	
Future prospects and challenges in enteric fever serology	Dr. Vipin Vishwanathan	2.30pm-3.30pm	
Integration of molecular and genomic approaches in serological testing	Dr. Vipin Vishwanathan	3.30pm-4.30pm	

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POST EVENT REPORT

'Serological Estimation of Enteric Fever' course conducted at St. Gregorios Dental College from August 10th to August 13th, 2020, was designed to familiarize the participants with the principles and applications of serological tests in diagnosing and monitoring enteric fever. The lecture was conducted online via ZOOM platform. The course was attended by the third year students of St. Gregorios Dental College. The lecture enhanced participants' understanding of the diagnosis of enteric fever and management using serological techniques effectively. The overall feedback received was excellent, with a scope of improvement suggested in areas of timeliness. The event was considered a valuable educational experience, contributing significantly to participants' knowledge and skills in the area of public health.

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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
- \bullet No

3. Instructions and facilitators

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

- Excellent
- Very Good
- Good
- Fair

Were the instructors approachable and responsive to questions?

- Yes
- No

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4. Course Materials:

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

- Yes
- No

Do you have any suggestions for improving the course materials?

5. 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

6. 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?

7. Additional Comments:

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

8. Would you recommend this course to your peers?

- Yes
- No

9. 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. Ranjima Abraham.

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FEEDBACK ANALYSIS

Participants praised the coverage of serological techniques for enteric fever, particularly beneficial for dental students. However, concerns were raised regarding occasional delays in the sessions, impacting punctuality. Suggestions included improvement of time management and stricter adherence to schedules. Overall, even though punctuality was a concern, the participants appreciated the informative content and the overall learning experience.

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ASSIGNMENT

- 1. Which of the following serological assays is commonly used for diagnosing enteric fever?
 - a) Polymerase Chain Reaction (PCR)
 - b) Western Blot
 - c) Widal Test
 - d) Hemagglutination Test
- 2. What are the primary causative agents of enteric fever?
 - a) Escherichia coli
 - b) Salmonella enterica serovars Typhi and Paratyphi
 - c) Staphylococcus aureus
 - d) Streptococcus pyogenes
- 3. Which germ layer gives rise to the majority of the human body's organs and tissues?
 - a) Endoderm
 - b) Mesoderm
 - c) Ectoderm
 - d) Exoderm
- 4. What is the primary role of the allantois during embryonic development?
 - a) Nutrient storage
 - b) Gas exchange
 - c) Waste elimination
 - d) Protection of the embryo
- 5. Which of the following is NOT a method of serological estimation used for enteric fever diagnosis?
 - a) Typhidot
 - b) ELISA
 - c) PCR
 - d) Widal Test
- 6. What is the main purpose of conducting quality control measures in serological testing?
 - a) To ensure accuracy and reliability of results
 - b) To reduce testing costs
 - c) To increase test sensitivity
 - d) To speed up the testing process

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- 7. Which of the following is a common complication of untreated enteric fever?
 - a) Pneumonia
 - b) Meningitis
 - c) Hepatitis
 - d) Peritonitis
- 8. What is the first step in performing a serological test?
 - a) Sample processing
 - b) Data analysis
 - c) Sample collection
 - d) Interpretation of results
- 9. Which serological assay detects specific antibodies against Salmonella antigens in patient serum?
 - a) PCR
 - b) Widal Test
 - c) Hemagglutination Test
 - d) Western Blot
- 10. What is the purpose of seroepidemiological surveys in enteric fever research?
 - a) To diagnose individual cases
 - b) To monitor disease trends and prevalence
 - c) To test vaccine efficacy
 - d) To study genetic predispositions

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Answer key:

- 1. c) Widal Test
- 2. b) Salmonella enterica serovars Typhi and Paratyphi
- 3. b) Mesoderm
- 4. b) Gas exchange
- 5. c) PCR
- 6. a) To ensure accuracy and reliability of results
- 7. c) Hepatitis
- 8. c) Sample collection
- 9. b) Widal Test
- 10. b) To monitor disease trends and prevalence

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TOPIC: SEROLOGICAL ESTIMATION OF ENTERIC FEVER (Webinar)

Date: 10.08.2020-13.08.2020

Sl no.	Name of participant
1.	Agna K Gheever
2.	Akshaya P R
3.	Alwina Mathew
4.	Amelia Maria Desouza
5.	Ammulakshmi M S
6.	Anagha P R
7.	Angel Mary Sajan
8.	Anitta Mathew Kongalathu
9.	Annie Tresa Jesty
10.	Athira S Pisharody
11.	Cerin E Erney
12.	Ciby Abraham
13.	Elbe Jacob
14.	Jia Miria George
15.	Maria Rani Thomas
16.	Nikky Peter
17.	Preenu Ann Prasad
18.	Richa Sara Sibi
19.	Ruth Rachel Roy
20.	Sarah Verghese
21.	Shamila
22.	Sheethal K Subramannian
23.	Sneha G Nath
24.	Soya Baby
25.	Sruthy S
26.	Treasa Elizabeth Jaimon

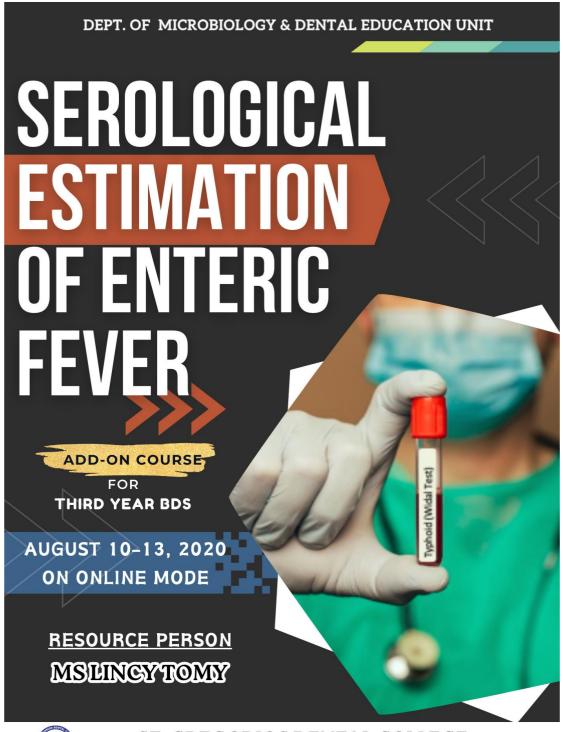
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PHOTOS





SCREENSHOTS OF ONLINE ADD ON COURSE-'SEROLOGICAL ESTIMATION OF ENTERIC FEVER'

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IMPLANTOLOGY

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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 PG students from the Department of Prosthodontics.

Respected Sir,

We are planning to conduct an add on course for PG students from the Department of Prosthodontics on IMPLANTOLOGY from 05.01.2021-08.01.2021 in the seminar hall, 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

CHELAD, KOTHAMANGALAM

SGDC/ADD/001/2021

02/01/2021

CIRCULAR

Subject: Certificate course on ImplantologY for PG students.

This is to inform you that an add on course for PG students is being organized by the Dental Education Unit and the Department of Prosthodontics and Crown and Bridge on topic entitled Implantology from 05.01.2021-08.01.2021 in the seminar hall, Department of Prosthodontics and Crown and Bridge.

For further reference reach out to Dr.Paul Kariyatty.

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DEU AND DEPARTMENT OF PROSTHODONTICS AND CROWN AND BRIDGE

IMPLANTOLOGY

Venue: St.Gregorios Dental College Date/time: 05.01.2021-08.01.2021

Course syllabus:

Implants in dental practice.

Preamble:

This extensive program is tailored for dental postgraduate students to be equipped with knowledge, skills, and confidence so that they can excel in the science and art of dental implantology. Dental implants have truly changed the way we restore a missing tooth or teeth, providing the patient with a long-term, functional, and esthetic opportunity. As demand rises, it becomes important for dental practitioners to be informed about the recent developments and best practices in the fast-evolving field of dental implantology. The participants will go through transformational learning in the course.

Rationale of the course:

From basic principles to advanced techniques, the curriculum encompasses the full spectrum of implantology, blending theoretical aspects with hands-on clinical training to ensure a well-rounded education.

Aim:

The aim of this program is to provide postgraduate students with a comprehensive understanding of dental implantology, focusing on the integration of implant therapy into the prosthetic treatment planning and restoration process.

Eligible participants:

PG students

Course duration: Total 30 hours **Mode of delivery:** Offline mode

Course coordinator: Dr.Paul Kariyatty

Course Faculty: Dr. Bijo John MDS and faculties of Department of Prosthodontics and Crown and

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COURSE SCHEDULE

DAY 1: 05/01/2021

MODULE 1 INTRODUCTION TO DENTAL IMPLANTOLOGY			
History of Dental Implants Dr. George Francis 8.30am -9.00am			
Basic Anatomy and Physiology of Oral Cavity	Dr. Paul Kariyatty	9.00am-9.30am	
Types of Dental Implants	Dr. Reba Balakrishnan	10.00am-10.30am	

MODULE 2 ORAL HEALTH ASSESSMENT AND TREATMENT PLANNING			
Patient Evaluation for Implant Surgery Dr. Bijo John 11.00am -11.30am			
Radiographic Assessment and Interpretation	Dr. Bijo John	11.30am-12.30pm	
Treatment Planning Considerations	Dr. Bijo John	12.30pm-1.30pm	

MODULE 3 SURGICAL TECHNIQUES AND INSTRUMENTS		
Surgical Anatomy of the Jawbones	Dr. Bijo John	2.00pm -2.30pm
Implant Placement Techniques (e.g., Flap vs. Flapless)	Dr. Bijo John	2.30pm-3.30pm
Surgical Instruments and Their Uses	Dr. Bijo John	3.30pm-4.30pm

DAY 2: 06/01/2021

MODULE 4 BONE GRAFTING AND AUGMENTATION			
Types of Bone Grafts Dr. Bijo John 8.30am -9.30am			
Bone Augmentation Techniques	Dr. Bijo John	9.30am-10.00am	
Complications and Management	Dr. Bijo John	10.00am-10.30am	

MODULE 5 PROSTHETIC OPTIONS AND COMPONENTS			
Prosthetic Components (e.g., Abutments, Crowns) Dr. Arun Joy 11.00am -11.30ar			
Fixed vs. Removable Prosthetic Solutions	Dr. Paul Kariyatty	11.30am-12.30pm	
Restorative Considerations	Dr. Reba Balakrishnan	12.30pm-1.30pm	



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MODULE 6 IMPLANT MAINTENANCE AND CARE			
Postoperative Care Instructions Dr. Bijo John 2.00pm -2.30pm			
Long-term Maintenance Protocols	Dr. Bijo John	2.30pm-3.30pm	
Management of Peri-implant Diseases	Dr. Bijo John	3.30pm-4.30pm	

DAY 3: 07/01/2021

MODULE 7 COMPLICATIONS AND THEIR MANAGEMENT			
Early and Late Complications Dr. George Francis 8.30am -9.00am			
Peri-implantitis: Diagnosis and Treatment	Dr. Mathew M. Alani	9.00am-9.30am	
Management of Implant Failures	Dr. Arun Joy	9.30am-10.30am	

MODULE 8 EMERGING TRENDS AND TECHNOLOGIES IN IMPLANTOLOGY		
Digital Dentistry and Implant Planning	Dr. Paul Kariyatty	11.00am - 11.30am
Guided Implant Surgery	Dr. Reba Balakrishnan	11.30am- 12.30pm
3D Printing in Implantology	Dr. Arun Joy	12.30pm-1.30pm

MODULE 9 CASE DISCUSSIONS		
Interactive Case Presentations	Dr. Bijo John	2.30am -3.30am
Treatment Planning Exercises and Discussions	Dr. Bijo John	3.30am-4.00pm

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DAY 4: 08/01/2021

Hands on- Impression making	Dr. Bijo John	9.30am-12.30pm
Hands on- Implant placement	Dr. Bijo John	1.30pm-4.30pm

A continuous practical training session would be conducted for **Prosthodontic PG** students every **Tuesdays** from **3:00pm** – **6:00pm** for **6 months**. They will be provided advanced hands on training followed by placement of implant on **10 patients** under the guidance of **Dr. Bijo John**.

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POST EVENT REPORT

Implantology course conducted at St. Gregorios Dental College from January 5 to January 8, 2021, was a comprehensive educational event designed to provide participants with theoretical knowledge and practical skills in dental implant procedures. The event consisted of a series of lectures given by renowned experts in the field followed by hands-on training sessions where participants practiced implant placement techniques under guidance.

The course was attended by the post graduate students from the Department of Prosthodontics of St. Gregorios Dental College. The event started off with lecture sessions covering topics such as implant treatment planning, surgical techniques, prosthetic considerations, and complications management. Following, participants engaged in hands-on workshops where they had the opportunity to practice various procedures in implant placement. Feedback forms were distributed to participants at the end of the event to evaluate the success of the program. Feedback from participants was overwhelmingly positive, with the participants appreciating the comprehensive content and the opportunity to practice techniques under expert supervision. They also highlighted the practical relevance of the workshop and its potential to positively impact their clinical practice.

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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

4. Instructions and facilitators

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

- Excellent
- Very Good
- Good
- Fair

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• 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. Paul Kariyatty.



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FEEDBACK ANALYSIS

The lecture on implantology followed by hands-on session received positive feedback from participants. They appreciated the coverage of topics including patient selection, surgical techniques, and post-operative care. The presenters conveyed complex concepts effectively using visuals aids and interactive methods. Participants found the hands-on session to be extremely beneficial. Suggestions for improvement included providing an additional support post-session. Overall, the participants felt confident in their ability to place implants following the session, although they expressed a desire for further learning opportunities in the future.

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ASSIGNMENT

1. What are the three main components of a dental implant?

- a) Crown, abutment, gum tissue
- b) Implant fixture, abutment, and crown
- c) Titanium screw, porcelain veneer, acrylic base
- d) Root canal post, crown, bone graft

2. What is the primary factor contributing to the success of dental implants?

- a) Type of anesthesia used during surgery
- b) Patient's age and gender
- c) Degree of implant angulation
- d) Osseointegration

3. Which of the following is NOT a consideration during treatment planning for dental implant placement?

- a) Bone density
- b) Patient's preference for tooth color
- c) Available bone height
- d) Proximity to vital structures

4. Which bone grafting technique involves using bone from the patient's own body?

- a) Allograft
- b) Xenograft
- c) Autograft
- d) Synthetic graft

5. What is the term for placing an implant immediately after tooth extraction?

- a) Delayed implant placement
- b) Immediate implant placement
- c) Subperiosteal implantation
- d) Endosteal implantation

6. Which of the following is a potential complication associated with dental implant surgery?

- a) Accelerated osseointegration
- b) Peri-implantitis
- c) Excessive bone formation
- d) Decreased bone density



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7. What is the purpose of an abutment in dental implantology?

- a) To cover the implant screw
- b) To provide stability to the implant crown
- c) To prevent osseointegration
- d) To replace the natural tooth root

8. Which imaging technique is commonly used for preoperative assessment in dental implantology?

- a) Ultrasound
- b) Magnetic resonance imaging (MRI)
- c) Cone beam computed tomography (CBCT)
- d) X-ray

9. What is the role of a surgical guide in dental implant placement?

- a) To protect the surrounding tissues during surgery
- b) To guide the placement of the implant in the correct position
- c) To hold the implant in place after placement
- d) To assist in the fabrication of the final prosthesis

10. What is the recommended maintenance protocol for patients with dental implants?

- a) Regular brushing and flossing
- b) Annual implant removal and replacement
- c) Avoiding dental check-ups
- d) Using abrasive toothpaste



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Answer key:

- 1) b) Implant fixture, abutment, crown
- 2) Osseointegration
- 3) b) Patient's preference for tooth color
- 4) c) Autograft
- 5) b) Immediate implant placement
- 6) b) Peri-implantitis
- 7) b) To provide stability to the implant crown
- 8) c) Cone beam computed tomography (CBCT)
- 9) b) To guide the placement of the implant in the correct position
- 10) a) Regular brushing and flossing



UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

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

PARTICIPANTS LIST



ST. GREGORIOS DENTAL COLLEGE, CHELAD

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

TOPIC: IMPLANTOLOGY

SI no.	Name of participant	Day 1	Day 2	Day 3	Day 4
1)	Dr Jelin Thomas	den	de-	Se	fa
2.)	De. Jenin Abahan	-	#	#	#
3.	De Pooja Jayan	1	4-	-	7-
4.	Dr. Kareena Mirlam	Kun	the	K	10
5-	Dr. JIMMY GEORGE	Jun-	Tr	J-	1 Jan
6.	Dr. Jishnu Sivaraman	Junks	miles	Tout	Just
7	Dr. Kiran D	Kula	Kisa	Yata	Kais
8	Dr. Jayassee 7	Jugara-	Tayou	Jupan	Tupsal
9)	Dr. Jegin Maria	RO	TROP	- 60E	A AD
10)	Dr S Maneesh Ahmad	1 de la	Massels	Markent	Manuel
11.	Dr Lisie P Mathew	Figor	Rine	dier	Lier
12.	Dr. Ann Mariya.	Jan	An	Aug -	(Var
18	Dr. Armutha Lal	Photodo	Parale	Proteto.	AMA.
14.	DY Hacikurhuan V	Heutel .	Austr	Hores	Alle
15)	Dr. Sheethal Sara		0	A STATE OF THE STA	tratol
16)	Dr. Arya Arawad.	Arya	Arya	Arya	Ango.
19 .	Dr. Ann George	An	- Am	Am	- Ans
(8)	Dr Breenath V.P	Se	384	Ske	The
19)	Dr Jose Nelson	Tole	Lose	Toro	Jose
20.	Dr Aparna Anand	Spor	Apre	App	do
	Dr. Jinson James	Juns.	Junes	Jingoo	June .
	Dr Raisa Doman	Staries	Pares	Parise	Pars
23)	Dr. Tamin Cyril	Jamine	Jornejne	Jamine	Jamme.
24)	Dr. Sarjin · S	Bayer	Harjin	The state of the s	toy"

SMIN	AL	90.
PRINCIPAL	DEU Convenor	DEU Secretary

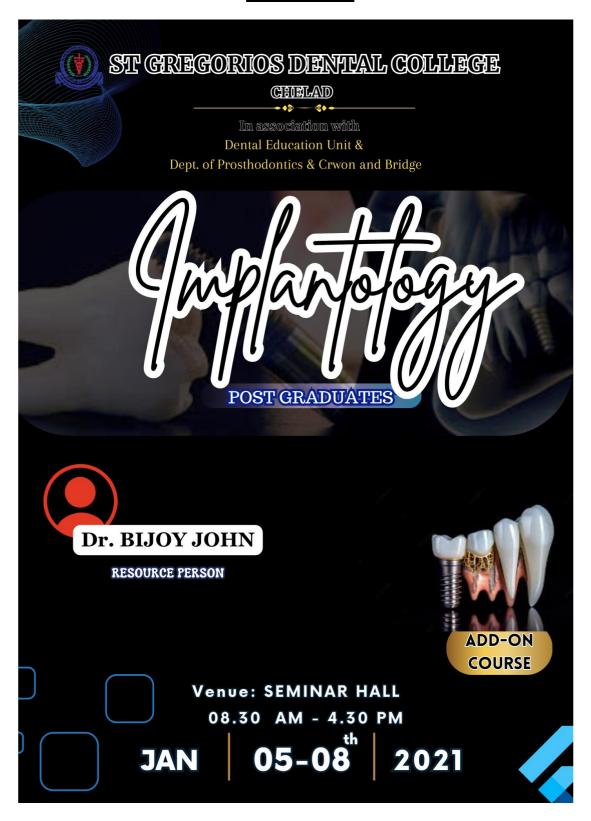
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PHOTOS



PHOTOGRAPH OF ADD ON COURSE- 'IMPLANTOLOGY'

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

DENTURE ESTHETICS

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 DENTURE ESTHETICS 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 on topic entitled DENTURE ESTHETICS on 15.02.2021-18.02.2021 via google meet. 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

CHELAD, KOTHAMANGALAM

SGDC/ADD/002/2021

13/02/2021

CIRCULAR

Subject: Certificate course on Denture Esthetics for Final year Part 2 students and interns.

This is to inform you that an add on course for Final Year Part 2 students is being organised by the Department of Prosthodontics and Crown and Bridge on topic entitled Denture Esthetics from 15/2/2021 -18/2/2021 via google meet.

For further reference reach out to Dr. Arun Joy

PRINCIPAL

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

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DEPARTMENT OF PROSTHODONTICS AND CROWN AND BRIDGE

DENTURE ESTHETICS

Venue: St. Gregorios Dental College Date/time: 15/02/2021 - 18/02/2021

Course syllabus:

Denture Esthetics

Preamble:

"Denture esthetics" refers to the art and science of designing and crafting dentures that restore function, enhance the appearance of a patient's smile and overall facial aesthetics. This field within dentistry focuses on creating dentures that closely resemble natural teeth in terms of color, shape, size, and arrangement. Denture esthetics involve careful consideration of factors like the patient's facial features, lip support, gum contours, and bite alignment to achieve optimal esthetic outcomes.

Rationale of the course:

It addresses the aesthetic aspects of denture design, crucial for restoring function and natural appearance of a patient's smile and facial features. By focusing on tooth selection, gum contouring, and bite alignment, the course enables dental professionals with the knowledge and skills needed to create dentures that closely resemble natural teeth. Understanding these principles enhances patient satisfaction, confidence, and quality of life, fostering comprehensive care in the field of prosthodontics.

Aim:

The course aims to equip dental professionals with the skill to create dentures that restore function while enhancing the aesthetic appearance of patients' smiles and facial features. It includes tooth selection, gum contouring, and bite alignment to achieve natural-looking results, promoting patient satisfaction and confidence in prosthodontic care.

Eligible participants: Final year Part 2 students and Interns

Course duration: Total 30 hours **Mode of delivery**: Online mode

Course coordinator: Dr. George Francis

Course Faculty: Dr. Jerrin Thomas and faculties of Department of Prosthodontics and Crown and

Bridge



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COURSE SCHEDULE

DAY 1: 15/02/2021

MODULE 1: INRODUCTION TO DENTURE ESTHETICS			
Definition and overview of Denture Esthetics	Dr. Paul Kariyatty	8:00am – 9:00am	
Significance of Denture Esthetics	Dr. Arun Joy	9:00am – 10:00am	
Histological Overview	Dr. Arun Joy	10:00am – 11:00am	

MODULE 2: FACIAL ANALYSIS AND AESTHETICS			
Understanding facial proportions and	Dr. Jerrin Thomas	11:00am – 12:00am	
aesthetics.			
Impact of dentures on overall facial	Dr. Jerrin Thomas	12:00pm – 12:30pm	
appearance.			

MODULE 3: SMILE DESIGN PRINCIPLES			
Elements of a natural-looking smile	Dr. Jerrin Thomas	12:30 – 1:30pm	
Techniques for designing aesthetically	Dr. Jerrin Thomas	1:30 – 2:00pm	
pleasing smiles			

MODULE 4: TOOTH SELECTION CRITERIA			
Factors influencing denture tooth selection.	Dr. Jerrin Thomas	3:30 – 4:30pm	
Matching tooth characteristics to patient's age and gender.	Dr. Jerrin Thomas	4:30 – 5:30pm	

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DAY 2: 16/02/2021

MODULE 5: TOOTH ARRANGEMENT TECHNIQUES			
Methods for arranging denture teeth for optimal	Dr. Jerrin Thomas	8:00 – 9:00am	
esthetics.			
Creating individualized tooth setups.	Dr. Jerrin Thomas	9:00 – 9:30am	
Difference based on Gender and Character	Dr. Jerrin Thomas	9:30 – 10:30am	

MODULE 6: GINGIVAL ESTHETICS		
Gum contouring principles.	Dr. Arun K Joy	10:30am – 11:30pm
Achieving natural-looking gingival contours	Dr. Paul Kariyatty	11:30pm – 12:30pm

MODULE 7: TISSUE SUPPORT AND STABILITY			
Techniques for enhancing denture stability and	Dr. Jerrin Thomas	12:30 – 1:00pm	
support.			
Managing soft tissue contours for esthetic	Dr. Jerrin Thomas	1:00 – 1:30pm	
outcomes.			

MODULE 8: OCCLUSION AND FUNCTIONAL ESTHETICS			
Importance of occlusion in denture esthetics.	Dr. Jerrin Thomas	2:30 – 3:30pm	
Achieving balanced occlusion for esthetic and	Dr. Jerrin Thomas	3:30 – 4:30pm	
functional harmony.			

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DAY 3: 17/2/2021

MODULE 9: COMPLETE AND PARTIAL DENTURE ESTHETICS			
Design considerations for complete dentures.	Dr. Jerrin Thomas	9:00am – 10:00am	
Enhancing esthetics in edentulous patients.	Dr. Jerrin Thomas	10:00am – 11:00pm	
Design strategies for partial dentures.	Dr. Jerrin Thomas	11:00pm – 12:00pm	
Blending partial dentures with remaining natural teeth.	Dr. Jerrin Thomas	12:00pm – 1:00pm	

MODULE 10: DIGITAL DENTURE DESIGNS		
Overview of digital denture design technologies.	Dr. Jerrin Thomas	2:00pm –
		3:00pm
CAD/CAM techniques for esthetic dentures	Dr. Jerrin Thomas	3:30pm –
		4:30pm
Advantages of Digital Denture Designs	Dr. Jerrin Thomas	4:30 – 5:30pm

DAY 4: 18/02/2021

MODULE 11: PATIENT COMMUNICATION AND EXPECTATION MANAGEMENT			
Strategies for discussing esthetic options with	Dr. Jerrin Thomas	9:00am – 9:30am	
patients.			
Managing patient expectations for esthetic	Dr. Jerrin Thomas	9:30am – 10:00am	
outcomes.			

MODULE 12: ESTHETIC CHALLENGES AND SOLUTIONS			
Addressing common esthetic challenges in denture	Dr. Jerrin Thomas	10:00 – 11:00am	
fabrication			
Problem-solving approaches for achieving optimal	Dr. Jerrin Thomas	11:00 – 11:30am	
esthetics			



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MODULE 13: ADVANCES IN DENTURE MATERIALS		
Modern materials for enhancing denture esthetics.	Dr. Jerrin Thomas	11:30-12:30pm
Advances in denture base and tooth materials.	Dr. Jerrin Thomas	12:30 – 1:30pm

MODULE 14: FUTURE TRENDS IN DENTURE ESTHETICS		
Emerging technologies and trends in denture esthetics.	Dr. Jerrin Thomas	2:00 – 3:00pm
Predictions for the future of esthetic dentistry	Dr. Jerrin Thomas	3:00 – 4:00pm



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POST EVENT REPORT

The course entitled "Denture Esthetics" conducted at St. Gregorios Dental College from February 15th to February 18th 2021, aimed to equip final year students with comprehensive skills in creating aesthetically pleasing dentures. It included principles of esthetic denture design, techniques for tooth selection, occlusion, and bite alignment, and proficiency in digital denture design. Through lectures and case studies, participants gained practical expertise in restoring natural-looking smiles and facial harmony. The course emphasized on effective communication with patients and addressed common challenges in denture esthetics. Ultimately, participants left the course with enhanced skills and confidence in delivering high-quality denture solutions and thereby improving patient satisfaction and overall quality of care in prosthodontics.

The course was attended by final year Part 2 students and interns from St. Gregorios Dental College with a keen interest in getting to know more about aesthetic concerns among denture patients. Continuous feedback was solicited from participants through interactive sessions and post-event surveys.

The course received positive feedback from the participants along with suggestions for future topics. Areas of interest were noted for consideration in planning subsequent educational events. Certificates of attendance were distributed to participants in recognition of their participation in the course.

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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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- 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. Arun Joy



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FEEDBACK ANALYSIS

Participants appreciated the comprehensive coverage of all topics but expressed a desire for more practical application opportunities. Instructors were praised for their knowledge and clarity, though some participants sought more interactive engagement. The course was deemed effective, but a few participants mentioned the need for additional resources. Overall, while satisfaction was high, there is room for improvement in enhancing practical learning experiences and providing supplementary materials to support participants' understanding and application of esthetic denture principles.



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ASSIGNMENT

1. Which of the following is crucial for achieving natural-looking denture esthetics?

- A) Tooth shape
- B) Tooth color
- C) Gum contouring
- D) All of the above

2. What is the main goal of denture esthetics?

- A) Restoring facial symmetry
- B) Enhancing chewing efficiency
- C) Creating natural-looking smiles
- D) Improving speech clarity

3. Which is commonly used for digital denture design?

- A) MRI
- B) CAD/CAM
- C) X-ray
- D) Ultrasonography

4. Which technique involves arranging denture teeth to create a natural-looking smile?

- A) Gingival contouring
- B) Tooth selection
- C) Occlusal adjustment
- D) Tooth arrangement

5. What role does occlusion have in denture esthetics?

- A) Determines tooth color
- B) Affects facial symmetry
- C) Influences chewing efficiency
- D) None of the above

6. Which dental professional primarily is responsible for denture esthetics?

- A) Orthodontist
- B) Endodontist
- C) Prosthodontist
- D) Periodontist

7. What is the role of effective patient communication in denture esthetics?

- A) Enhances treatment outcomes
- B) Reduces treatment costs
- C) Decreases treatment time
- D) None of the above

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- 8. Which is the material commonly used for creating lifelike gum contours in dentures?
 - A) Acrylic resin
 - B) Metal alloy
 - C) Titanium
 - D) Ceramic
- 9. What significance does facial analysis have in denture esthetics?
 - A) Determines occlusion
 - B) Guides tooth selection
 - C) Evaluates speech clarity
 - D) None of the above
- 10. Which is the aspect of denture esthetics that focuses on achieving balanced tooth alignment?
 - A) Gingival esthetics
 - B) Occlusal harmony
 - C) Facial symmetry
 - D) Gum contouring



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Answer key:

- 1. D) All of the above
- 2. C) Creating natural-looking smiles
- 3. B) CAD/CAM
- 4. D) Tooth arrangement
- 5. C) Influences chewing efficiency
- 6. C) Prosthodontist
- 7. A) Enhances treatment outcomes
- 8. A) Acrylic resin
- 9. B) Guides tooth selection
- 10. B) Occlusal harmony



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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: DENTURE ESTHETICS- webinar

Date: 15.02.2021-18.02.2021

Sl no.	Name of participant
1.	Abina Joy
2.	Aida James
3.	Ajai Joy
4.	Akarsh S Kumar
5.	Aishwarya Satheesh
6.	Alfi Benny
7.	Aneena JoJo
8.	Anna Rose K Jose
9.	Aleena Susan Anto
10.	Anna Twinkle Mathew
11.	Annu Thomas
12.	Anupa Merium Agish
13.	Ashiya Alwyn
14.	Athira Sami
15.	Amrutha E
16.	Angel Kurian
17.	Anchris Joseph
18.	Anu Ann Bussy
19.	Devi Sasi
20.	Geo Thomas
21.	Greeshma George
22.	Anupriya Antony
23.	Jeney M Jose
24.	Jithin Jose Netticadan
25.	Merrin John
26.	Neethu R
27.	Nihina Joseph
28.	Nimmi Mani
29.	Niva Babu
30.	Prince Peter
31.	Priyamvada C
32.	Dona Davis

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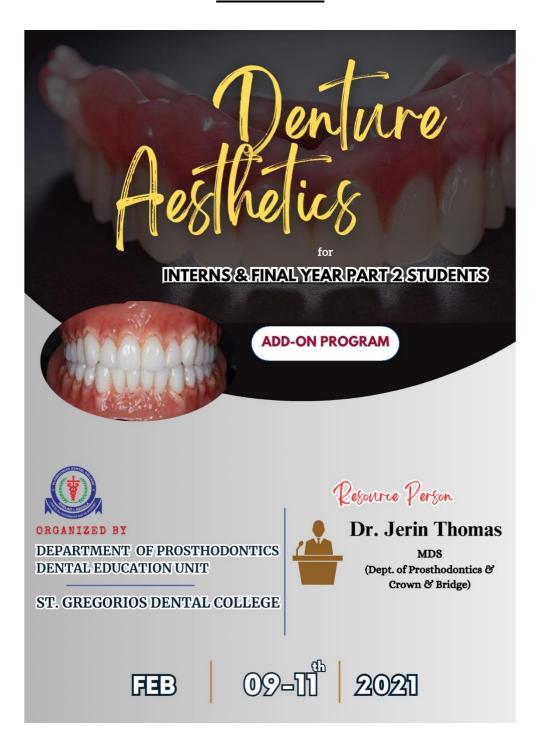
33.	Elizabeth Thomas
34.	Reshma Marshal Thomas
35.	Rinku Mariam Reji
36.	Gancy Gimmy
37.	Sharon M S
38.	Aswathy Susan Alaxander
39.	Soumya Xavier
40.	Tisha George Thykadavil
41.	Juliea Sam Varghese
42.	Meenu Chandy
43.	Meera Babu
44.	Merina Eldow
45.	Milan P B
46.	Mohammed Marsook C T
47.	Reshmi K V
48.	Sruthy Xavier
49.	Sudheeshna M
50.	Vinitha Paul



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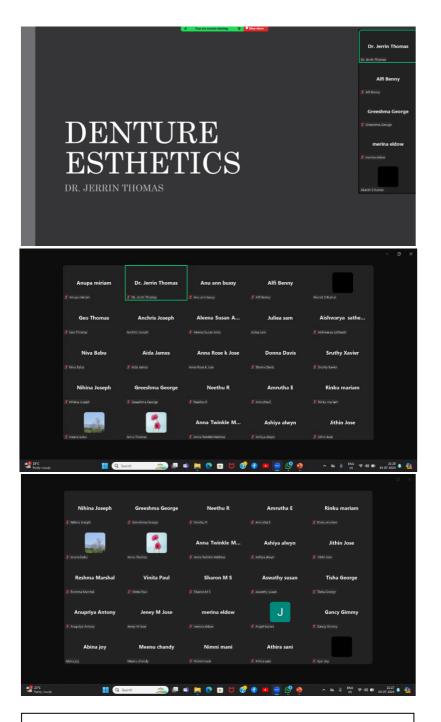
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PHOTOS



SCREENSHOTS OF ONLINE ADD ON COURSE ENTITLED "DENTURE



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A

EMBRYOLOGY AND DEVELOPMENT

 $Phone: 0485\text{-}2572531,\ 532,\ 9188952016,\ 9188952017$

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 EMBRYOLOGY AND DEVELOPMENT certificate program for Second year students.

Respected Sir,

We are planning to conduct an online add on course for Second year students on 'EMBRYOLOGY AND DEVELOPMENT' from 15.03.2021-18.03.2021 via online platform (ZOOM). 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

CHELAD, KOTHAMANGALAM

SGDC/ADD/003/2021

12/03/2021

CIRCULAR

Subject: Certificate course on 'Embryology And Development' for Second year students.

This is to inform you that an online add on course for Second year students is being organized by the Dental Education Unit and the Department of General Anatomy and Histology on topic entitled 'Embryology And Development' from 15.03.2021-18.03.2021 via online platform (ZOOM).

For further reference reach out to Ms. Manju Manoharan.

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DEU AND DEPARTMENT OF GENERAL ANATOMY AND HISTOLOGY

EMBRYOLOGY AND DEVELOPMENT

Date/time: 15.03.2021-18.03.2021

Course syllabus:

Embryology and Development.

Preamble:

Embryology is the study of the development of organisms from fertilization to birth and it offers profound insights into the fundamental principles of biology and medicine. Through this course, the participants will embark on a voyage through the process of embryological development, from the formation of the first cell to the emergence of complex organ systems.

Rationale of the course:

This online lecture explores the process of embryology and development, covering everything from how organisms form and grow after fertilization to birth. Using lectures, multimedia, and discussions, students will understand the principles of embryology and developmental biology in depth.

Aim:

The aim of this course is to provide the participants with a thorough understanding of embryology and developmental biology, from fertilization to birth. Through lectures, multimedia presentations, and interactive discussions, students will gain a deeper idea about the intricate processes involved in the formation and growth of organisms.

Eligible participants: Second year students

Course duration: Total 30 hours **Mode of delivery:** Online mode

Course coordinator: Ms. Manju Manoharan Course Faculty: Ms. Nima M. Kalapura



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

COURSE SCHEDULE

DAY 1: 15/03/2021

MODULE 1 INTRODUCTION TO EMBRYOLOGY AND DEVELOPMENT		
Overview of embryology	Ms. Nima M. Kalapura	8.30am -9.00am
Historical background	Ms. Nima M. Kalapura	9.00am-9.30am
Basic terminology and concepts	Ms. Nima M. Kalapura	10.00am- 10.30am

MODULE 2 GAMETOGENESIS AND FERTILIZATION		
Process of gametogenesis	Ms. Nima M. Kalapura	11.00am -11.30am
Mechanisms of fertilization	Ms. Nima M. Kalapura	11.30am-12.30pm
Formation of the zygote	Ms. Nima M. Kalapura	12.30pm-1.30pm

MODULE 3 CLEAVAGE AND BLASTULATION		
Cleavage stages	Ms. Nima M. Kalapura	2.00pm -2.30pm
Formation of the blastula	Ms. Nima M. Kalapura	2.30pm-3.30pm
Role of blastocyst in implantation	Ms. Nima M. Kalapura	3.30pm-4.30pm

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DAY 2: 16/03/2021

MODULE 4 GASTRULATION AND GERM LAYER FORMATION		
Gastrulation process	Ms. Nima M. Kalapura	8.30am -9.30am
Formation of ectoderm, endoderm, and mesoderm	Ms. Nima M. Kalapura	9.30am-10.00am
Establishment of the embryonic axes	Ms. Nima M. Kalapura	10.00am-10.30am

MODULE 5 NEURULATION AND EARLY NERVOUS SYSTEM DEVELOPMENT		
Neurulation and neural tube formation	Ms. Nima M. Kalapura	11.00am -11.30am
Development of the neural crest	Ms. Nima M. Kalapura	11.30am-12.30pm
Early brain and spinal cord development	Ms. Nima M. Kalapura	12.30pm-1.30pm

MODULE 6 DEVELOPMENT OF THE CARDIOVASCULAR SYSTEM		
Formation of the primitive heart tube	Ms. Nima M. Kalapura	2.00pm -2.30pm
Development of blood vessels	Ms. Nima M. Kalapura	2.30pm-3.30pm
Establishment of fetal circulation	Ms. Nima M. Kalapura	3.30pm-4.30pm



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DAY 3: 17/03/2021

MODULE 7 DEVELOPMENT OF THE RESPIRATORY AND DIGESTIVE SYSTEMS		
Formation of the respiratory diverticulum	Ms. Nima M. Kalapura	8.30am - 9.00am
Development of the pharyngeal arches	Ms. Nima M. Kalapura	9.00am- 9.30am
Differentiation of the digestive tract	Ms. Nima M. Kalapura	9.30am- 10.30am

MODULE 8 DEVELOPMENT OF THE MUSCULOSKELETAL SYSTEM		
Differentiation of somites	Ms. Nima M. Kalapura	11.00am - 11.30am
Formation of skeletal elements	Ms. Nima M. Kalapura	11.30am- 12.30pm
Development of muscles and connective tissues	Ms. Nima M. Kalapura	12.30pm- 1.30pm

MODULE 9 DEVELOPMENT OF THE REPRODUCTIVE SYSTEM		
Differentiation of the gonads	Ms. Nima M. Kalapura	2.00pm - 2.30pm
Formation of internal and external genitalia	Ms. Nima M. Kalapura	2.30pm- 3.30pm
Hormonal regulation of sexual differentiation	Ms. Nima M. Kalapura	3.30pm- 4.30pm

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DAY 4: 18/03/2021

MODULE 10 FETAL GROWTH AND MATURATION		
Growth of the fetus during gestation	Ms. Nima M. Kalapura	8.30am - 9.00am
Maturation of organ systems	Ms. Nima M. Kalapura	9.00am- 9.30am
Role of the placenta and umbilical cord	Ms. Nima M. Kalapura	9.30am- 10.30am

MODULE 11 ENVIRONMENTAL INFLUENCES ON DEVELOPMENT		
Teratogens and their effects on embryonic development	Ms. Nima M. Kalapura	11.00am - 11.30am
Maternal factors affecting fetal growth and development	Ms. Nima M. Kalapura	11.30am- 12.30pm
Fetal programming and long-term health implications	Ms. Nima M. Kalapura	12.30pm- 1.30pm

MODULE 12 DEVELOPMENTAL DISORDERS AND ETHICAL CONSIDERATIONS		
Genetic and environmental factors in developmental disorders	Ms. Nima M. Kalapura	2.00pm - 2.30pm
Common congenital anomalies	Ms. Nima M. Kalapura	2.30pm- 3.30pm
Ethical considerations in embryological research	Ms. Nima M. Kalapura	3.30pm- 4.30pm

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POST EVENT REPORT

'Embryology and Development' course conducted at St. Gregorios Dental College from March 15th to March 18th, 2021, was designed to provide participants with comprehensive knowledge on embryological principles and developmental biology. The lecture series comprised of 12 modules and it included multimedia presentations, and interactive discussions to engage students effectively. The course was attended by the second year students of St. Gregorios Dental College. Participants gained knowledge about various topics, including gametogenesis, organogenesis, and fetal growth. Feedback was collected from the participants and they appreciated the course structure as well as depth of content. Overall, the program served its purpose in equipping students with a thorough knowledge on embryology and developmental biology, paving the way for future exploration and application in related fields.

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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. Instructions and facilitators

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

- Excellent
- Very Good
- Good
- Fair
- Poor

Were the instructors approachable and responsive to questions?

- Yes
- No

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4. Course Materials:

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

- Yes
- No

Do you have any suggestions for improving the course materials?

5. 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

6. 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?

7. Additional Comments:

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

8. Would you recommend this course to your peers?

- Yes
- No

9. 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 Ms. Manju Manoharan.



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FEEDBACK ANALYSIS

Analyzing feedback from the lecture, the participants found clarity in the presentation of complex topics such as gastrulation, neurulation, and organogenesis. The interactive discussions and visuals were highlighted as particularly effective in keeping the participants attentive throughout the session. However, some participants expressed concern in lack of clarification on certain topics, indicating areas where the presentation could be improved for better understanding. Overall, the lecture was well received by the students, with constructive feedback providing valuable insights for future enhancements in content delivery and organization.

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ASSIGNMENT

- 1. Which of the following is NOT a germ layer formed during gastrulation?
 - a) Endoderm
 - b) Mesoderm
 - c) Exoderm
 - d) Ectoderm
- 2. Neurulation is the process by which:
 - a) The notochord forms from mesoderm
 - b) The neural tube forms from the ectoderm
 - c) The heart begins to develop
 - d) Limb buds emerge from the mesoderm
- 3. Organogenesis refers to the:
 - a) Formation of the three germ layers
 - b) Development of organs from germ layers
 - c) Formation of the blastocyst
 - d) Differentiation of stem cells
- 4. Which structure serves as the temporary organ of gas exchange in the mammalian embryo?
 - a) Amnion
 - b) Allantois
 - c) Yolk sac
 - d) Chorion
- 5. The process of somitogenesis involves the segmentation of:
 - a) Neural tube
 - b) Endoderm
 - c) Mesoderm
 - d) Ectoderm
- 6. Which of the following is derived from the ectoderm?
 - a) Muscle tissue
 - b) Nervous system
 - c) Blood vessels
 - d) Epithelial lining of the digestive tract



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- 7. The notochord is a defining feature of which germ layer?
 - a) Endoderm
 - b) Mesoderm
 - c) Exoderm
 - d) Ectoderm
- 8. What is the role of the placenta during embryonic development?
 - a) Protection of the embryo
 - b) Gas exchange
 - c) Nutrient and waste exchange
 - d) Production of blood cells
- 9. Which embryonic structure develops into the central nervous system?
 - a) Neural crest
 - b) Neural tube
 - c) Notochord
 - d) Neurulation
- 10. Which of the following is NOT a stage of prenatal development?
 - a) Gastrulation
 - b) Implantation
 - c) Cleavage
 - d) Puberty



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Answer key:

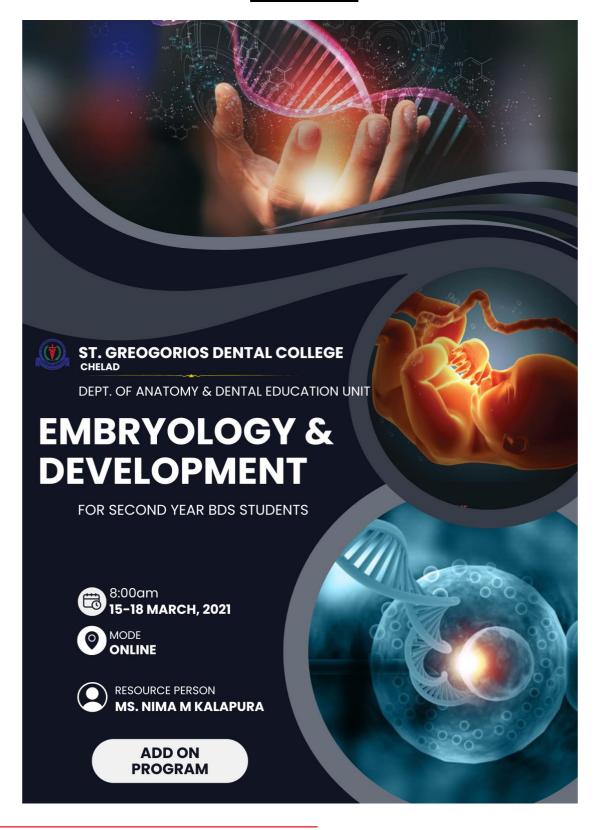
- 1. c) Exoderm
- 2. b) The neural tube forms from the ectoderm
- 3. b) Development of organs from germ layers
- 4. b) Allantois
- 5. c) Mesoderm
- 6. b) Nervous system
- 7. b) Mesoderm
- 8. c) Nutrient and waste exchange
- 9. b) Neural tube
- 10. d) Puberty



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PARTICIPANTS LIST



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UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA- 686681

TOPIC: EMBRYOLOGY AND DEVELOPMENT (ONLINE WEBINAR)

DATE: 15.03.2021-18.03.2021

Sl no.	Name of participant
1.	Aibin Joy
2.	Aiswarya Lizbeth K
3.	Akshara T K
4.	Alex Mathew
5.	Alina B Paul
6.	Alka Susan Binu
7.	Alvin Raju
8.	Aneetta Anna Eldho
9.	Anisha Rachel John
10.	Annett Maria
11.	Anoopa T M
12.	Aparana U Raj
13.	Arya Gireesh
14.	Ashley Eldo Paulose
15.	Chippy Elizabeth Philip
16.	Dilna Elizabeth Biju
17.	Elizabath kodiyattil
18.	George Biju
19.	Gouri Lakshmi S
20.	Hanna Mary Eldho
21.	Jeff Jacob Mathews
22.	Jithin Saji
23.	Kareena Rachel Punnen
24.	Liya Maria Joseph
25.	Liyana Shibu
26.	Manisha Chandran
27.	Mannya Maria Aby
28.	Mariya Elizabeth Sunil
29.	Melvin Thomas
30.	Mishal Ann Mathew
31.	Puthri Nora James
32.	Rinku C Rajeev



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33.	Riyana V H
34.	S Mahima Mahendran
35.	Siona Rachel Saji
36.	Sruthy Tresa Cherian
37.	Sruthy S
38.	Vyshali Jai Prakash

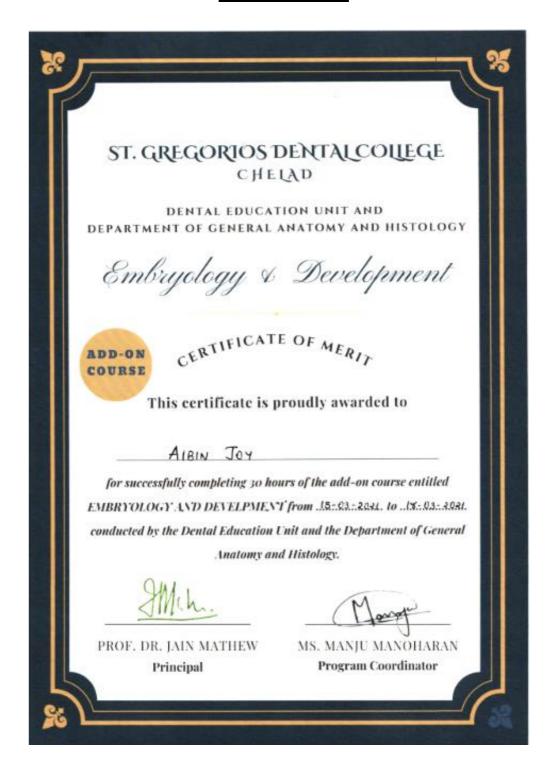
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CERTIFICATE



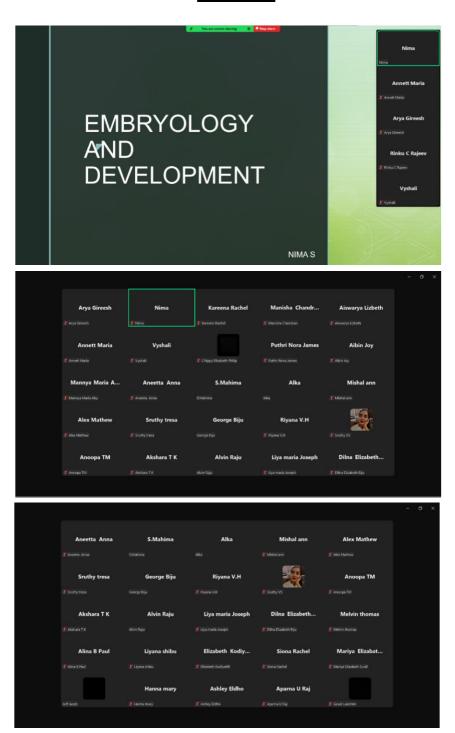
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PHOTOS



SCREENSHOTS OF ONLINE ADD ON COURSE- 'EMBRYOLOGY AND DEVELOPMENT'



UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

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

FUNDAMENTALS OF BASIC SCIENCE

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 FUNDAMENTALS OF BASIC SCIENCE certificate program for postgraduate students.

Respected Sir,

We are planning to conduct an add on course for postgraduate on topic entitled FUNDAMENTALS OF BASIC SCIENCE on 11/05/2021-14/05/2021 in the seminar hall, Department of Prosthodontics. 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

Head of the Department of Prosthodontics and Crown and Bridge

CHELAD, KOTHAMANGALAM

SGDC/ADD/004/2021

08/05/2021

CIRCULAR

Subject: Certificate course on Fundamentals Of Basic Science for postgraduate students.

This is to inform you that an add on course for Postgraduate students is being organised by the Department of Prosthodontics and Crown and Bridge on topic entitled FUNDAMENTALS OF BASIC SCIENCE from 11/5/2021 -14/5/2019 in the seminar hall, Department of Prosthodontics.

For further reference reach out to Dr. Arun Joy

PRINCIPAL

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

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DEPARTMENT OF PROSTHODONTICS AND CROWN AND BRIDGE

FUNDAMENTALS OF BASIC SCIENCE

Venue: St. Gregorios Dental College Date/time: 11/05/2021 - 14/05/2021

Course syllabus:

FUNDAMENTALS OF BASIC SCIENCE

Preamble:

"FUNDAMENTAL OF BASIC SCIENCE" is a comprehensive introduction to the essential principles of basic science specifically designed to support and enhance the learning experience of medical students. Through a series of engaging lectures, interactive discussions, and hands-on activities, students will delve into the fundamental concepts of biology, chemistry, physics, and mathematics that are foundational to medical practice. Topics covered will include anatomy, physiology, biochemistry, dental anatomy and histology, pharmacology, microbiology, general pathology, dental materials,

Rationale of the course:

The course on fundamentals of basic science for postgraduate students is essential for laying the groundwork in understanding the underlying principles of various scientific disciplines pertinent to dentistry. It provides a comprehensive foundation in basic science subjects, equipping students with the necessary knowledge to comprehend advanced dental concepts and engage in evidence-based practice thereby fostering holistic dental education and patient care.

Aim:

The aim of the course on fundamentals of basic science for postgraduate students is to cultivate a robust understanding of the foundational principles in biology, chemistry, and physics within the context of dentistry. By providing comprehensive knowledge in these fundamental sciences, the course targets to equip students with the analytical skills and theoretical framework necessary for advancing in their specialized field, ultimately enhancing their ability to deliver high-quality dental care.

Eligible participants: Postgraduate students

Course duration: Total 30 hours **Mode of delivery**: Offline mode

Course coordinator: Dr. George Francis

Course Faculty: Dr. Joe Mathew



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COURSE SCHEDULE

Day 1: 11/05/2021

MODULE 1: ANATOMY		
Gross anatomy of the upper and lower limbs,	Dr. Joe Mathew	8:00am – 9:00am
thorax, abdomen, and pelvis.		
Histology of epithelial, connective, muscular,	Dr. Joe Mathew	9:00am – 10:00am
and nervous tissues.		
Embryology, including embryonic development	Dr. Joe Mathew	10:00am – 11:00am
of various systems.		

MODULE 2: BIOCHEMISTRY		
Structure and function of biomolecules:	Dr. Joe Mathew	11:30 – 12:30pm
proteins, carbohydrates, lipids, and nucleic		
acids.		
Enzyme kinetics, metabolic pathways	Dr. Joe Mathew	12:30 – 1:00pm
(glycolysis, Krebs cycle, etc.)		
Bionrgetics	Dr. Joe Mathew	1:00 – 1:30pm
Molecular biology topics like DNA replication,	Dr. Joe Mathew	2:00 – 2:30pm
transcription, translation, and gene expression		
regulation.		



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DAY 2: 12/05/2021

MODULE 3: PHYSIOLOGY		
Cell physiology, membrane transport, and cell	Dr. Joe Mathew	8:00am – 9:00am
signaling.		
Physiology of the nervous system,	Dr. Joe Mathew	9:00am – 10:00am
cardiovascular system, respiratory system, and		
digestive system.		
Endocrine physiology and principles of	Dr. Joe Mathew	10:00am – 11:00am
homeostasis.		

MODULE 4: DENTAL ANATOMY AND ORAL HISTOLOGY		
Study of dental tissues: enamel, dentin,	Dr. Joe Mathew	2:30 – 3:00pm
cementum, and pulp.		
Morphology of permanent and deciduous teeth,	Dr. Joe Mathew	3:30 – 4:00pm
including cusps, ridges, and grooves.		
Histological structure of oral mucosa, salivary	Dr. Joe Mathew	4:00 – 4:30pm
glands, and periodontium.		

MODULE 5: MICROBIOLOGY		
Microbial morphology, structure, and classification.	Dr. Joe Mathew	11:00am – 12:00am
Microbial growth and control, including sterilization and disinfection.	Dr. Joe Mathew	12:00pm – 1:00pm
Immunology basics: immune response, antibodies, antigens, and hypersensitivity reactions.	Dr. Joe Mathew	1:00 – 2:00pm

MODULE 6: ORAL MICROBIOLOGY		
Oral Microbial Flora	Dr. Joe Mathew	2:30 – 3:00pm
Dental Plaque Formation	Dr. Joe Mathew	3:00 – 4:00pm
Microbial Pathogenesis	Dr. Joe Mathew	4:00 – 4:30pm



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DAY 3: 13/05/2021

MODULE 7: PHARMACOLOGY		
Pharmacodynamics: drug receptors, mechanisms of	Dr. Joe Mathew	8:00am – 9:00am
drug action.		
Pharmacokinetics: drug absorption, distribution,	Dr. Joe Mathew	9:00am – 10:00am
metabolism, and excretion.		
Autonomic pharmacology, including sympathetic	Dr. Joe Mathew	10:00am –
and parasympathetic drugs.		11:00am

MODULE 8: DENTAL PHARMACOLOGY		
Drug Classes in Dentistry	Dr. Joe Mathew	11:00am –
		12:00am
Pharmacotherapy in Dentistry	Dr. Joe Mathew	12:00pm – 1:00pm
Drug Interactions and Adverse Reactions:	Dr. Joe Mathew	1:00 – 2:00pm

MODULE 9: GENERAL PATHOLOGY		
Cellular adaptations, inflammation, and tissue repair.	Dr. Joe Mathew	2:30 – 3:00pm
Neoplasia: benign and malignant tumors.	Dr. Joe Mathew	3:00 – 4:00pm
Systemic pathology: cardiovascular diseases, respiratory diseases, and gastrointestinal disorders.	Dr. Joe Mathew	4:00 – 4:30pm



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DAY 4: 14/05/2021

MODULE 10: GENERAL AND ORAL PATHOLOGY		
Dental caries: etiology, pathogenesis, and histopathology.	Dr. Joe Mathew	8:00am –
		9:00am
Periodontal diseases: gingivitis, periodontitis, and	Dr. Joe Mathew	9:00am –
periapical diseases.		10:00am
Oral manifestations of systemic diseases: diabetes,	Dr. Joe Mathew	10:00 -
HIV/AIDS, and autoimmune disorders.		11:00am

MODULE 11: DENTAL MATERIALS		
Properties of dental materials: physical,	Dr. Joe Mathew	11:00am – 12:00am
mechanical, and biological properties.		
Dental impression materials, restorative materials	Dr. Joe Mathew	12:00pm – 1:00pm
(composites, amalgam), and prosthetic materials.		
Adhesive dentistry, dental ceramics, and dental	Dr. Joe Mathew	1:00 – 2:00pm
casting alloys.		

MODULE 12: GENERAL MEDICINE AND SURGERY				
Cardiovascular diseases: hypertension, ischemic heart	Dr. Joe Mathew	2:30 – 3:00pm		
disease, and congestive heart failure.				
Respiratory diseases: asthma, chronic obstructive pulmonary disease (COPD), and pneumonia.	Dr. Joe Mathew	3:00 – 4:00pm		
Surgical principles, wound healing, and management of surgical emergencies.	Dr. Joe Mathew	4:00 – 4:30pm		



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POST EVENT REPORT

The course entitled "FUNDAMENTALS OF BASIC SCIENCE" conducted at St. Gregorios Dental College from May 11th to May 14th 2021, highlights its success in providing a comprehensive understanding of foundational scientific principles crucial for advanced dental practice. The course effectively covered topics imcluding anatomy, physiology, biochemistry, pharmacology, patology, microbiology general medicine, general surgery their applications to dentistry, fostering a holistic approach to patient care. Through interactive lectures, and collaborative learning activities, participants gained invaluable insights into evidence-based practices and research methodologies. The course was attended by postgraduate students from St. Gregorios Dental College with a keen interest in getting to know more about aesthetic concerns among denture patients. Continuous feedback was solicited from participants through interactive sessions and post-event surveys. The course received positive feedback from the participants along with suggestions for future topics. Areas of interest were noted for consideration in planning subsequent educational events. Certificates of attendance were distributed to participants in recognition of their participation in the course.

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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. **Instructors and Facilitators:**

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

- Excellent
- Very Good
- Good
- Fair
- Poor

Were the instructors approachable and responsive to questions?

- Yes
- No



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4. Course Materials:

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

- Yes
- No

Do you have any suggestions for improving the course materials?

5. 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

6. **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?

7. Additional Comments:

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

- 8. Would you recommend this course to your peers?
 - Yes
 - No

9. **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. Arun Joy



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FEEDBACK ANALYSIS

The feedback analysis of the course on fundamentals of basic science for postgraduate students in dentistry reveals positive responses from participants. The attendees expressed satisfaction with the course content, citing its relevance and applicability to their clinical practice. Particularly appreciated were the interactive teaching methods case-based discussions, which facilitated a deeper understanding of complex scientific concepts. Attendees also specifically praised the expertise of the instructors and their ability to effectively convey the material. Constructive criticism also focused on the desire for additional practical sessions and more in-depth coverage of certain topics. Overall, the feedback underscores the course's success in meeting the educational needs of the postgraduate dental students, with suggestions for further enhancement in future iterations.

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ST.GREGORIOS DENTAL COLLEGE

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ASSIGNMENT

- 1. What is the primary function of the pulp within a tooth?
 - A. Production of enamel
 - B. Sensation of pain and temperature
 - C. Attachment of the tooth to the jawbone
 - D. Protection of the tooth from decay
- 2. Which type of tooth is typically used for cutting and shearing food?
 - A. Incisor
 - B. Canine
 - C. Premolar
 - D. Molar
- 3. Which of the following bones forms the majority of the hard palate?
 - A. Maxilla
 - B. Mandible
 - C. Nasal bone
 - D. Zygomatic bone
- 4. What is the primary function of fluoride in dental care?
 - A. Whitening of teeth
 - B. Strengthening of enamel
 - C. Prevention of gum disease
 - D. Removal of plaque
- 5. Which dental specialty focuses on the treatment of malocclusions and misaligned teeth?
 - A. Endodontics
 - B. Orthodontics
 - C. Periodontics
 - D. Prosthodontics
- 6. What is the name of the connective tissue that attaches a tooth to the surrounding bone?
 - A. Cementum
 - B. Dentin
 - C. Periodontal ligament
 - D. Alveolar bone
- 7. Which of the following is NOT a common cause of dental caries?
 - A. Poor oral hygiene
 - B. Excessive fluoride intake
 - C. High sugar consumption
 - D. Bacterial plaque buildup



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- 8. What is the primary function of the temporomandibular joint (TMJ)?
 - A. Attachment of the tongue to the jawbone
 - B. Articulation of the mandible with the skull
 - C. Production of saliva
 - D. Transmission of nerve signals to the brain
- 9. Which of the following is a common symptom of gingivitis?
 - A. Tooth decay
 - B. Bleeding gums
 - C. Tooth sensitivity
 - D. Jaw pain
- 10. Which dental specialty focuses on the diagnosis and treatment of diseases affecting the supporting structures of the teeth?
 - i. Endodontics
 - ii. Orthodontics
 - iii. Periodontics
 - iv. Prosthodontics



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Answer key:

- B) Sensation of pain and temperature
- A) Incisor
- A) Maxilla
- B) Strengthening of enamel
- B) Orthodontics
- C) Periodontal ligament
- B) Excessive fluoride intake
- B) Articulation of the mandible with the skull
- B) Bleeding gums
- C) Periodontics



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ATTENDANCE LIST



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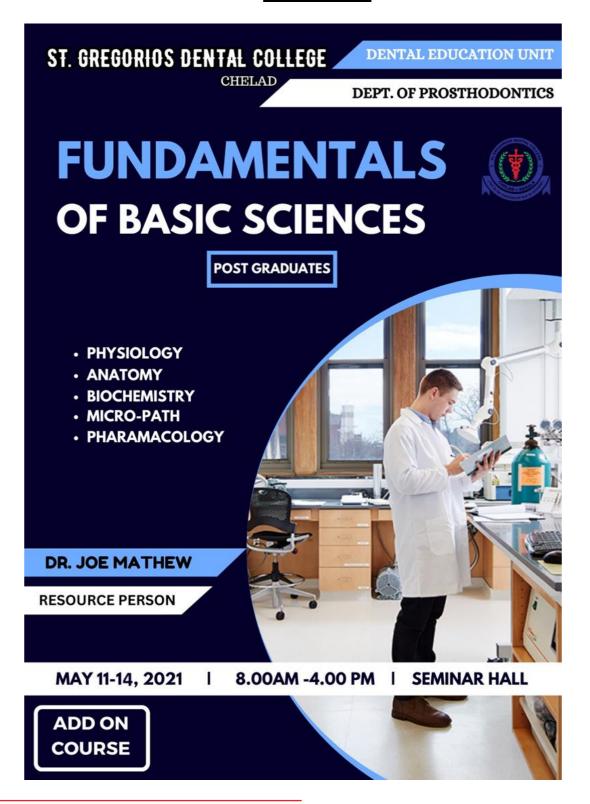
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CERTIFICATE





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PHOTOS



PHOTOS OF ADD ON COURSE ENTITLED FUNDAMENTALS OF BASIC SCIENCE

UNDER THE MANAGEMENT OF MJSCE TRUST, PUTHENCRUZ

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

ECG EVALUATION

Phone: 0485-2572531, 532, 9188952016, 9188952017

From

Head of the Department

Department of Physiology and Biochemistry

St. Gregorios Dental College, Chelad

To

The Principal

St. Gregorios Dental College, Chelad

Subject: Request letter for conducting an online Add on program titled 'ECG EVALUATION' for First Year students

Respected Sir,

We are planning to conduct an online Add on course for First Year students on the topic 'ECG EVALUATION' from 24.05.21 - 27.05.21 via an online platform. Details of the program are enclosed here for your reference.

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

Thanking You

Yours sincerely,

Ms. Josna Raju

Department of Physiology and Biochemistry

CHELAD, KOTHAMANGALAM

SGDC/ADD/005/2021

20/05/2021

CIRCULAR

Subject: Add on Course on ECG Evaluation for 1st year students

This is to inform you that an add on course for 1st year students is being organized by the Department Physiology and Biochemistry on the topic entitled ECG Evaluation from 24.05.21-27.05.21 through an online platform

For further reference, reach out to Ms. Josna Raju.

PRINCIPAL

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

DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

ECG EVALUATION

Date/Time: 24.05.2021 - 27.05.2021

Course Syllabus:

ECG evaluation for first year students

Preamble:Holistic understanding of the human body and its intricate systems, under which cardiovascular health plays an important role, comprises of dentistry. For assessing cardiac function, the Electrocardiogram serves as a standard tool that helps diagnose and manage many disorders related to the heart. This course will introduce you to basic concepts on how electrocardiography works so that you will be able to understand more about this diagnostic tool later on.

Rationale of the course: The course aims at helping first year undergraduates to understand the significance of cardiovascular health in dentistry and learn the basics of ECG. Most of the patients seeking dentalattention may have different systemic conditions, some of them being cardiovascular diseases.

Dental students should be skilled in interpreting ECG so as to detect and deal with cardiacabnormalities, which in turn might assist in planning treatment.

Aim:

The purpose of this course is the ability to interpret ECGs correctly by giving undergraduatestudents necessary knowledge and skills

Eligible participants: First year students

Course duration: Total 30 hours

Mode of delivery: Online mode (Zoom Meeting)

Course coordinator: Ms. Josna Raju

Course faculty: Ms. Jitha K. S

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

COURSE SCHEDULE

24.05.2021

MODULE 1: INTRODUCTION TO CARDIAC ANATOMY AND PHYSIOLOGY			
Overview of Structure and function	Ms. Josna Raju	8.30am-9.00am	
Conduction and electrical properties	Ms. Josna Raju	9.00am-9.30am	
Cardiac structure and ECG MORPHOLOGY	Ms. Josna Raju	10.00am-11.am	

MODULE 2: INTRODUCTION TO ECG			
History	Ms. Jitha K S	11.30am-12.30pm	
Basics of electrical activity	Ms. Jitha K S	12.30pm-1.00pm	
Purpose and significance	Ms. Jitha K S	1.00pm-1.30pm	

MODULE 3: ECG WAVEFORMS AND INTERVALS			
Interpretation	Ms. Jitha K S	2.00pm-3.00pm	
Measurement	Ms. Jitha K S	3.00pm-4.00pm	
Ranges and variations	Ms. Jitha K S	4.00pm-4.30pm	

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25.05.2021

MODULE 4: PRINCIPLES OF ECG INTERPRETATION			
Systemic approach	Ms. Jitha K S	8.30am-9.00am	
Sinus rhythm and variations	Ms. Jitha K S	9.00am-10.00am	
Lead orientation and axis determination	Ms. Jitha K S	10.00am-11.00am	

MODULE 5: COMMON CARDIAC ARRHYTHMIAS			
Recognition and Interpretation	Ms. Josna Raju	11.00am-12.00pm	
ECG findings	Ms. Josna Raju	12.00pm-1.00pm	
Clinical significance	Ms. Josna Raju	1.00pm-1.30pm	

MODULE 6: ECG CHANGES IN CARDIAC DISORDRERES		
ECG manifestations	Ms. Jitha K S	2.30pm-3.30pm
Correlation between ECG findings and pathophysiology	Ms. Jitha K S	3.30pm-4.30pm

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26.05.2021

MODULE 7: CLINICAL APPLICATIONS OF ECG EVALUATION				
Risk stratification and prognosis assessment	Ms. Josna Raju	8.30am-9.00am		
Clinical cases and decision making	Ms. Josna Raju	9.00am-10.00am		
Case studies	Ms. Josna Raju	10.00am-11.00am		

MODULE 8: ADVANCED TOPICS IN ECG INTEPRETATION			
Advanced ECG techniques	Ms. Jitha K S	11.30am-12.30pm	
Pediatric and geriatric patients	Ms. Jitha K S	12.30pm-1.30pm	
Emerging trends and technologies	Ms. Jitha K S	1.30pm-2.00pm	

MODULE 9: INTERDISCIPLINARY COLLABORATION AND COMMUNICATION			
Interdisciplinary collaboration	Ms. Jitha K S	2.30pm-3.00pm	
Effective communication	Ms. Jitha K S	3.00pm-4.30pm	
Referral of patients	Ms. Jitha K S	4.30pm-5.00pm	

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27.05.2021

MODULE 10: SPECIAL POPULATION			
Cardiac care in Special Population	Ms. Josna Raju	8.30am-9.30am	
Interpretation challenges	Ms. Josna Raju	9.30am-10.30am	
Strategies for adapting ECG interpretation	Ms. Josna Raju	10.30am-11.30am	

MODULE 11: ARTIFACT RECOGNITION AND TROUBLESHOOTING			
Identification and interpretation	Ms. Jitha K S	12.00pm-12.30pm	
Techniques for minimizing artifacts	Ms. Jitha K S	12.30pm-1.00pm	
Troubleshooting strategies	Ms. Jitha K S	1.00pm-1.30pm	

MODULE 12: PRACTICAL SKILLS AND ASSESSMENT		
ECG interpretation and tracings using clinical cases	Ms. Josna Raju	2.00pm -2.30pm
Assessment of skills	Ms. Josna Raju	2.30pm-3.30pm
Feedback and evaluation	Ms. Josna Raju	3.30pm-4.30pm

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POST EVENT REPORT

On May 24, 2021, the faculty of the Department of Physiology and Biochemistry hosted the course "ECG EVALUATION." The event's goal was to provide the incoming class of dental students with the knowledge and skills necessary to properly analyze an ECG and provide patient care in a dental practice.

Despite the students taking classes virtually, over 85% of them still attended, making the event a huge success. Ms. Jitha K. S., the program's speaker, used a mix of interactive conversations, case studies, and lectures to present the modules. The course was successful in achieving its goals of giving students the know-how and abilities needed to read ECGs. Positive comments about the course came from the

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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 session/demonstration

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

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- Excellent
- Very Good
- Good
- Fair
- Poor

4. Instructions and facilitators

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

- 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

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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 Ms. Josna Raju.

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FEEDBACK ANALYSIS

The participant feedback offered insightful information for improving the training even more. High levels of satisfaction with the training and learning experience, including content and delivery, were reported by the majority of students. They valued the course's interactive components, which included case studies, talks, and lectures. A few people proposed increasing the number of case-based learning exercises. The primary complaint raised by the students was the online course format, as they were having trouble connecting because of network problems. In general, the pupils shown a desire to study more about the subject.

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ASSIGNMENT

1.	Which component	of the ECG	represents	atrial depolarization	?
				1	

- A. P wave
- B. QRS complex
- C. T wave
- D. PR interval

2. What does the ST segment on an ECG represent?

- A. Atrial depolarization
- B. Ventricular depolarization
- C. Ventricular repolarization
- D. Atrial repolarization

3. Which ECG lead is commonly used to assess the electrical activity of the inferior wall of theheart?

- A. Lead I
- B. Lead II
- C. Lead III
- D. Lead aVR

4. Which of the following is NOT a common characteristic of sinus rhythm on an ECG?

- A. Presence of P waves
- B. Consistent PR interval
- C. Normal QRS duration
- D. Absence of T waves

5. What does a prolonged QT interval on an ECG indicate?

- A. Atrial fibrillation
- B. Ventricular tachycardia
- C. Risk of ventricular arrhythmias
- D. Normal cardiac function

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6.	Which ECG lead is	positioned at the fourt	h intercostal space	, right sternal border?
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- A. Lead V1
- B. Lead V2
- C. Lead V3
- D. Lead V4

7. What is the normal duration of the PR interval on an ECG?

- A. 0.06-0.12 seconds
- B. 0.12-0.20 seconds
- C. 0.20-0.40 seconds
- D. 0.40-0.60 seconds

8. In which condition would you expect to see a widened QRS complex on an ECG?

- A. Atrial fibrillation
- B. Ventricular fibrillation
- C. Sinus bradycardia
- D. Normal sinus rhythm

9. Which wave on the ECG represents ventricular repolarization?

- A. P wave
- B. QRS complex
- C. T wave
- D. U wave

10. Which of the following ECG findings is characteristic of a complete heart block?

- A. Narrow QRS complexes
- B. Irregularly irregular rhythm
- C. Prolonged PR interval
- D. Absent T waves

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Assignment key:

- 1. A) P wave
- 2. C) Ventricular repolarization
- 3. B) Lead II
- 4. D) Absence of T waves
- 5. C) Risk of ventricular arrhythmias
- 6. A) Lead V1
- 7. B) 0.12-0.20 seconds
- 8. B) Ventricular fibrillation
- 9. C) T wave
- 10. C) Prolonged PR interval

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ATTENDANCE LIST



ST. GREGORIOS DENTAL COLLEGE, CHELAD

UNDER THE MANAGEMENT OF MUSCE TRUST, PUTHENCRUZ CHELAD, KOTHAMANGALAM, ERNAKULAM DIST, KERALA-688681

TOPIC: ECG EVALUATION (ONLINE)

DATE: 24.05.2021-27.05.2021

S.NO	NAME OF PARTICIPANTS
1	Abhinaya K A
2	Ahsana Nazreen
3	Aleena Elezabeth Issac
4	Aneena Mariya Boban
5	Anit Simon
6	Anjitha K Vijay
7	Annet Rachel Joy
8	Arsha K A
9	Arun V A
10	Aswani G
11	Athira Kunhiraman
12	Athira P R
13	Gopika Joshi
14	Gopika S M
15	Hephziba Tom
16	Hridya Kuriakose
17	Jia Suresh
18	Jini Jiji
19	Krishna Prakash
20	Liya Merin Paul
21	Maria M Raju
22	Mehar Jan Shaw
23	Merin Rose M T
24	Merin Xavier
25	Mirwa T P

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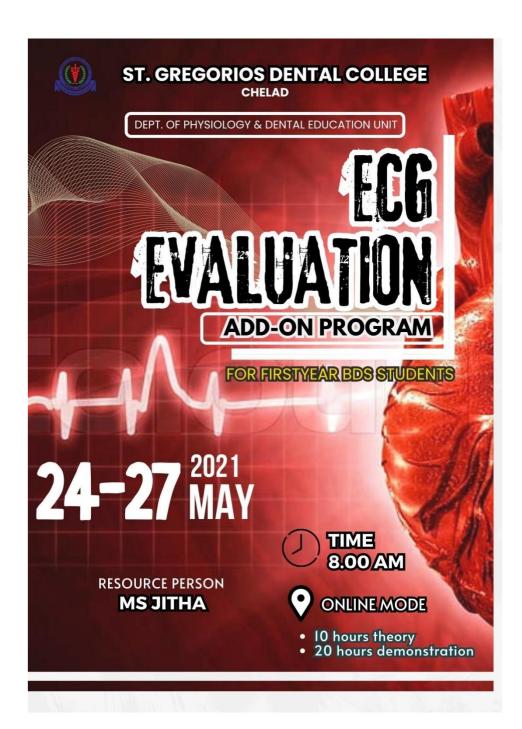
26	Nihma A
27	Rajmohan
28	Rintu Sunil
29	Roshini Robin
30	S Farhana
31	Sajeesha Sasi
32	Sandra Mariam Thomas
33	Sandra Susan
34	Sara Mathew
35	Sneha N S
36	Snigdha Jayaraj
37	Sreelakshmi
38	Sreemol C R
39	Swathi S Prasad
40	Vaishnavi S

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CERTIFICATE



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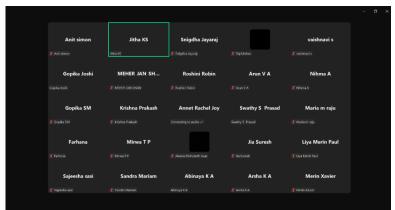


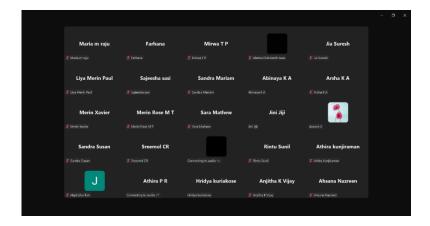
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PHOTOS







Online Add-On Program 'ECG Evaluation'

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