

# SANTOSH

Deemed to be University



2.3.2 The use of Clinical Skills Laboratory and Simulation Based Learning



**SANTOSH**  
MEDICAL COLLEGE & HOSPITAL

**Clinical/ Skill Training Program/Simulation**

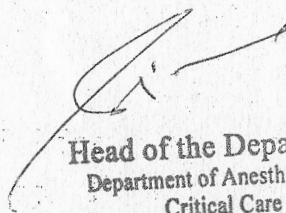
**Topic:** American Heart Association Certified BLS and ACLS Training Program

**Faculty In-charge:** Dr Debapriya Sarkar

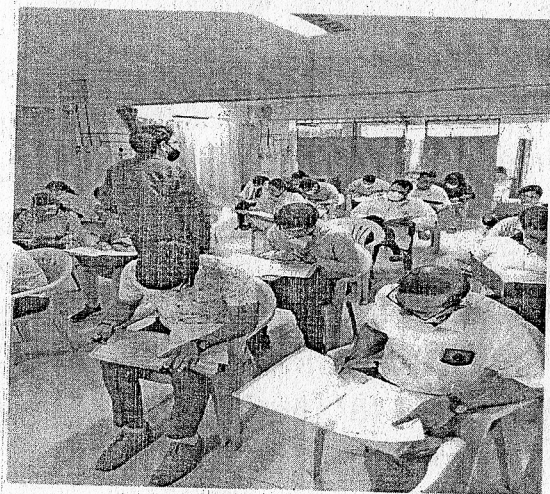
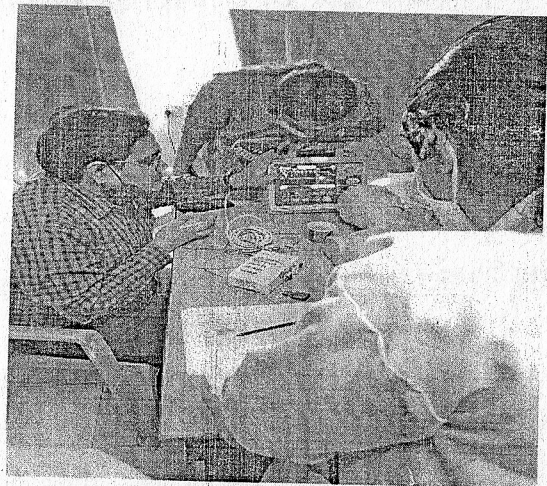
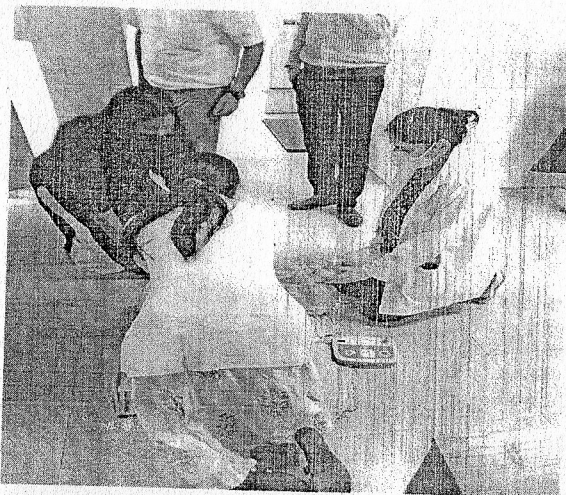
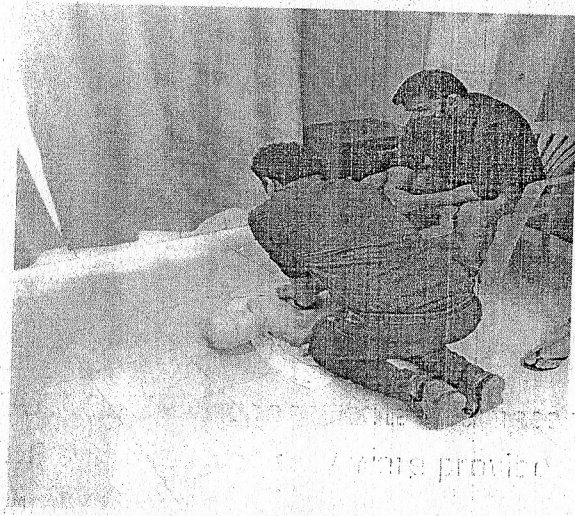
**Total No. of Students Attended:** 30

**Objective:** To impart cognitive as well as psychomotor skills of CPR which in turn helps provide a standardized care to cardiac arrest victims in accordance with AHA guidelines. In addition, the course pledge to bestow information and hands-on practice in cardiac arrest situations.

**Activities:** It was a three days course comprising of didactic lectures and hands on training. Participants were exposed to dummy patients (mannequins) to train them for basic and advanced cardiac life support. They were trained in identifying cardiac arrest victims, assessment of patient's condition, high quality CPR, various airway management techniques, critical ECG interpretation, various emergency drugs usage and above all role playing and team dynamics. After training program, they were assessed for their performance (written and practical) and provided with the provider certificate for BLS and ACLS.

  
**Head of the Department**  
Department of Anesthesia and  
Critical Care  
Santosh Medical College Hospital  
Ghaziabad-201001 (U.P.)

**OUTCOMES:** Students obtained necessary knowledge and skills to provide BLS and ACLS and they were provided with AHA Provider certificate for BLS and ACLS



*[Signature]*  
Head of the Department  
Department of Anesthesia and  
Critical Care  
Santosh Medical College Hospital  
Ghaziabad-201001 (U.P.)



**SANTOSH**  
MEDICAL COLLEGE & HOSPITAL

Clinical/ Skill Training Program/Simulation

**Topic: SAMPLE COLLECTION**

1) Sample collection – Throat Swab

- Proper sample collection, packaging and transport

2) Sample collection – Nasal Swab

- Proper sample collection, packaging and transport

3) Sample collection – Nasopharyngeal swab.

- Proper sample collection, packaging and transport

**Faculty In-charge: Dr Ashutosh Rawat, Dr Ritu Jain**

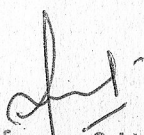
**Total No. of Students Attended: 60**

**Objective: Proper sample collection, packaging and transport**

**Activities:**



**OUTCOMES:** Students can efficiently and confidently collect, pack and transport throat swab, nasal swab and Nasopharyngeal swab.

  
Professor & Head  
Department of Microbiology  
Santosh Medical College, Ghaziabad



**SANTOSH**  
MEDICAL COLLEGE & HOSPITAL

Clinical/ Skill Training Program/Simulation

Topic: BLOOD SAMPLE COLLECTION

Faculty In-charge: Dr Ashutosh Rawat

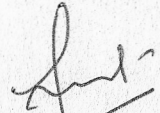
Total No. of Students Attended: 25

Objective: Proper Blood sample collection

Activities:



OUTCOMES: Students can efficiently and confidently collect blood samples.

  
Professor & Head  
Department of Microbiology  
Santosh Medical College, Ghaziabad



## SANTOSH MEDICAL COLLEGE & HOSPITAL

### Clinical/ Skill Training Program/Simulation

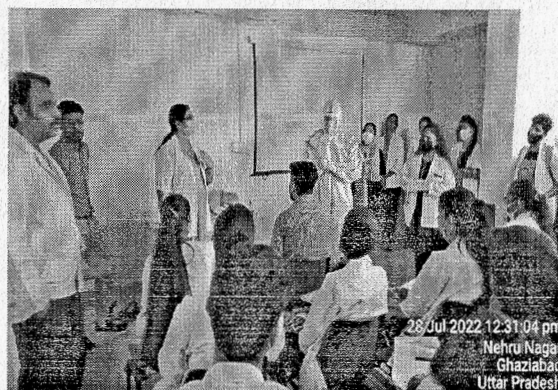
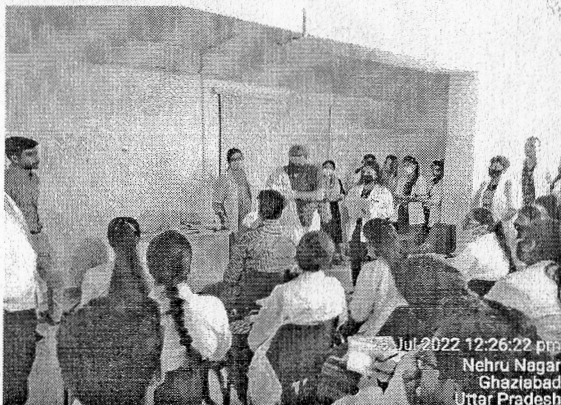
Topic: Use of PPE

Faculty In-charge: Dr Ashutosh Rawat , Dr Ritu Jain

Total No. of Students Attended: 60

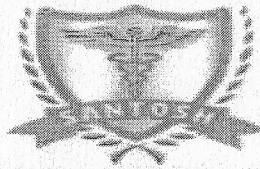
Objective: Proper donning and doffing of PPE

Activities:



**OUTCOMES:** Students can properly don or doff PPE Kits.

Professor & Head  
Department of Microbiology  
Santosh Medical College, Ghaziabad



# SANTOSH MEDICAL COLLEGE & HOSPITAL

Clinical/ Skill Training  
Program/Simulation

Topic: Mantoux skin test

Faculty In-charge: Dr. Dakshina Bisht , Dr Ashutosh Rawat ,  
Dr Ritu Jain , Dr Ankita Gupta

Total No. of Students Attended: 25

Objective: How to perform the test and its interpretation

Activities:



**OUTCOMES:** Can efficiently and confidently administer and interpret Mantoux test.

Professor & Head  
Department of Microbiology  
Santosh Medical College, Ghaziabad



**SANTOSH**  
MEDICAL COLLEGE & HOSPITAL

**Skills in Pediatrics**

**Department of Pediatrics**

**Topic:** Endotracheal Intubation in Newborns and Children.

**Faculty In-charge:**

Dr.Radhika Mantry, Dr.Anisa Riyaz, Dr.sohini Ghosh under the guidance of Dr.Alka Agrawal and Dr.K.C. Aggarwal.

**Total No. of Students Attended:** 32 students

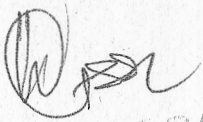
**Objective:** Endo Tracheal Intubation is an essential competency for PG Students both in NICU & PICU Setup to save precious lifes. But it is a difficult skill and needs repeated practice/ hands on sessions.

**Activities:**

- NRP WORKSHOPS : CERTIFICATE COURSES are mandatory for all PG Students.
- Intubation heads are used regulary for practice by all PG Students. PG Students are trained by DOPS and assessed by OSCE.

**OUTCOMES:**

All PG'S from 2<sup>nd</sup> year onwards are competent for ET intubation and are doing ET intubation and managing patients on ventilatory support in NICU & PICU under supervision.

  
DR. K.C. AGGARWAL  
M.D. (PGI, Chd.) PD<sup>DM</sup>, Diploma in D.M.  
Prof. & HOD Paediatrics  
Santosh Medical College & Hospital  
Ghaziabad (U.P.) DMC No. 5256





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**Ghaziabad, Uttar Pradesh, India**  
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 Mallwara, Nehru Nagar, Ghaziabad, Uttar Pradesh 201001, India  
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 Long 77.432553°  
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*Dr. K.C. Aggarwal*  
**Dr. K.C. AGGARWAL**  
 M.D. (PGI, Chd.) PDCDM, Diploma in D.M.  
 Prof. & HOD Paediatrics  
 Santosh Medical College & Hospital  
 Ghaziabad (U.P.) DMC No. 5255



**SANTOSH**  
MEDICAL COLLEGE & HOSPITAL

Clinical/ Skill Training  
Program/Simulation

Topic: Phaco Wet Lab

Faculty In-charge: Dr. Sarita Aggarwal

Total No. of Students Attended: 10

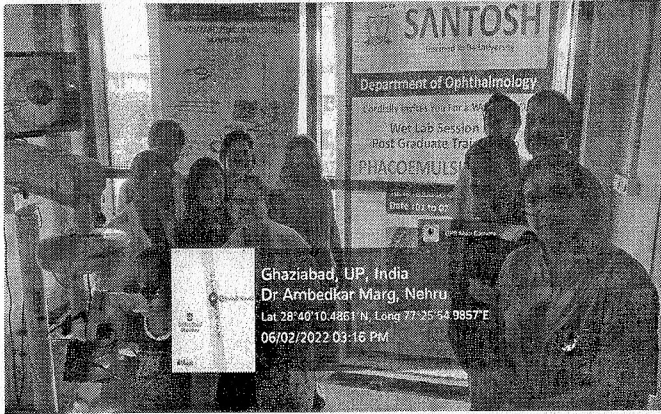
Objective: Enhancement of surgical skills of Post graduates

Activities: Sensitization to the Microscope  
Hand & Eye coordination  
Steps of Phacoemulsification

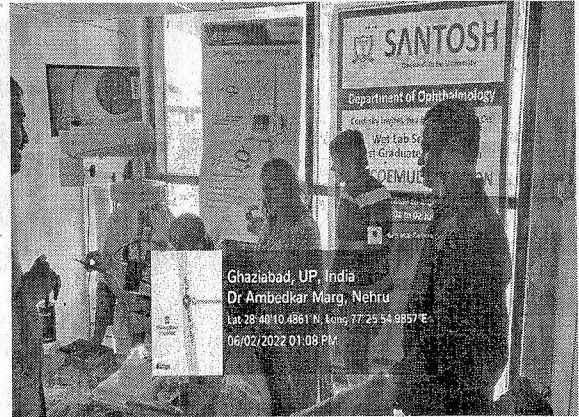
OUTCOMES: The whole session was full of motivation, refinement of skills, improving confidence of Post graduate trainees.

DR. SARITA AGGARWAL  
Professor & HOD  
Ophthalmology  
Santosh Medical College  
MCI No. 03428

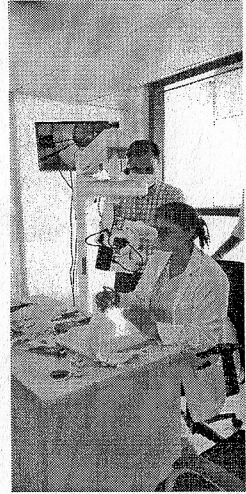
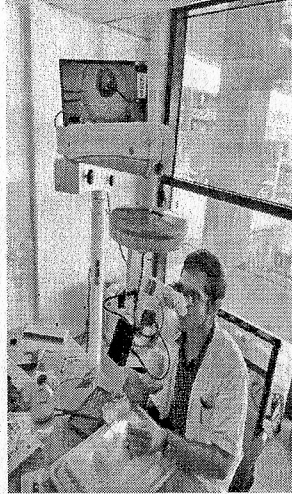
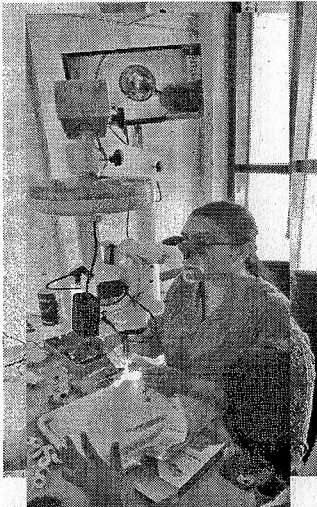
*Sarita Aggarwal*  
A.P.M.



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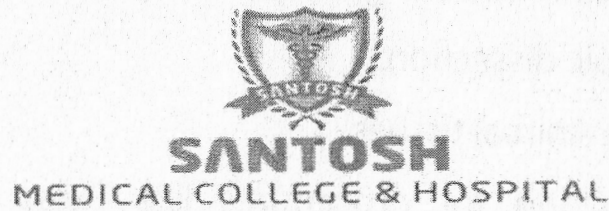
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Dr. SARITA AGGARWAL  
 Professor & HOD  
 Ophthalmology  
 Santosh Medical College  
 MCI No. 0342

*Sarita Aggarwal*  
 Dr. SARITA AGGARWAL  
 Professor & HOD  
 Ophthalmology  
 Santosh Medical College  
 MCI No. 0342

General Surgery



Clinical/ Skill Training Program/Simulation

Topic: Laparoscopic Hand-Eye co-ordination With Knotting technique using a Laparoscope.

Faculty In-charge: Dr Shalabh Gupta.

Total No. of Students Attended: 12

Objective: Teaching the hands-on Endo-Vision surgical skills for the PG Students

This helped in Teaching the hands-on Endo-Vision surgical skills for the PG Students for imparting the following:-

1. Laparoscopic suturing under Endo-Vision.
2. Suture handling with Hand-Eye co-ordination.

*Shalabh Gupta*

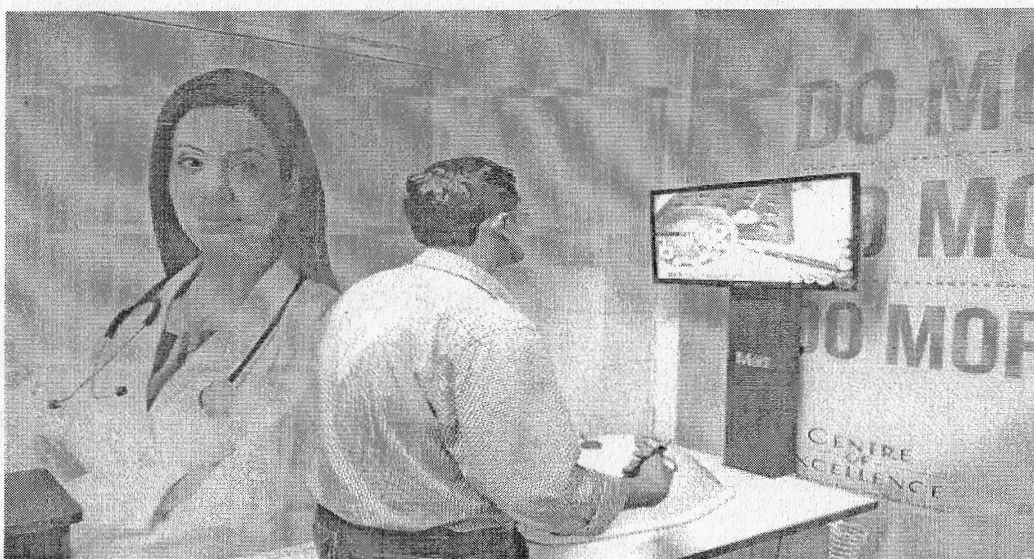
Dr. SHALABH GUPTA  
Prof. & HOD Surgery  
Santosh Medical College and  
Hospital, Ghaziabad

3. Knotting technique using a Laparoscope.
4. Laparoscopic dissection.
5. Practice on Animal tissues.
6. Video teaching for procedures like Ryles tube insertion, venesection, Foley' s catheterisation, IV cannulation etc..

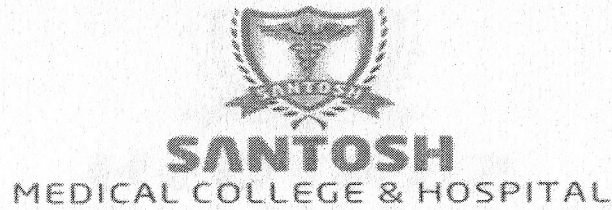
Activities: 4.2.2021. Duration 3 hrs

1. Laparoscopic Hand Eye Coordination
2. Laparoscopic Suture Knotting
3. Laparoscopic dissection
4. Video teaching

OUTCOMES: Skill of Laparoscopy was achieved



*Shalabh Gupta*  
Dr. SHALABH GUPTA  
Prof. & HCD Surgery  
Santosh Medical College and  
Hospital, Ghaziabad



Clinical/ Skill Training Program/Simulation

Topic: Laparoscopic Hand-Eye co-ordination With Knotting technique using a Laparoscope.

Faculty In-charge: Dr. Shalabh Gupta

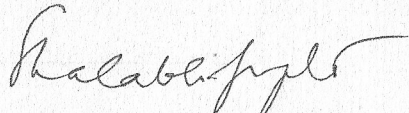
Total No. of Students Attended: 12

Objective: Teaching the hands-on Endo-Vision surgical skills for the PG Students.

For MBBS students Knotting and Suturing sessions are held on routine basis apart from routine skills activities.

Activities: 14.9.2020 Duration 3 hrs.

1. Laparoscopic Hand Eye Co-ordination
2. Laparoscopic Suture Knotting

  
Dr. SHALABH GUPTA  
Prof. & HOD Surgery  
Santosh Medical College and  
Hospital, Ghaziabad



Clinical/ Skill Training Program/Simulation

Topic: Skill Conclave 2021

Maintain the Space: Band and Loop Space Maintainer

Faculty In-charge: Dr. Nidhi Gupta ( Professor and HOD)

Dr. Rashi Singh ( Reader)

Total No. of Students Attended: 13

Interns:

1. Akansha Rani
2. KM Shimpi
3. Ruchika Vashisth
4. Sanjana Baisoya
5. Farheen
6. Fatima
7. Rishika
8. Traesa Maharana

Final Years:

1. Saksham Kharbanda
2. Ruchika Choudhary
3. Riya Chaudhary
4. Sadaf Zia
5. Saumya Singh

### Objective:

The main objective of conducting this program was to orient undergraduate students about detailed description of Band and Loop Space Maintainer, its indication, contraindication and factors to be considered before selecting a space maintainer in Pediatric Dentistry in Santosh Dental College.

### Activities:

The Skill Conclave was conducted by Department of Pediatric and Preventive Dentistry on the topic Maintain the Space: Band and Loop Space Maintainer on 25th November, 2021 at 2:00 p.m. to 3:00 pm.

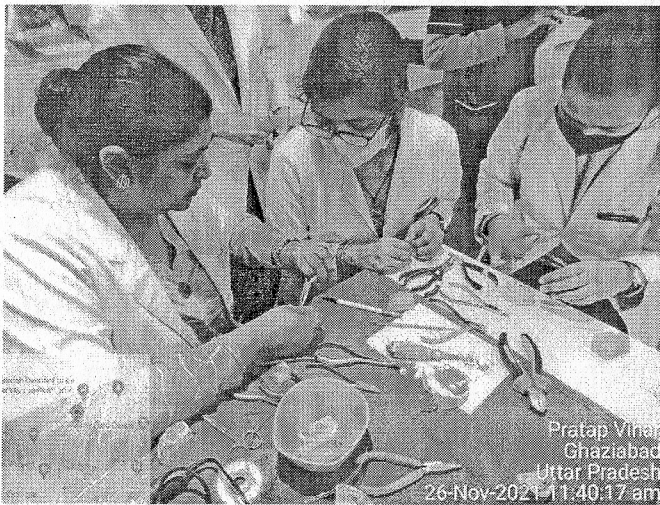
The conclave started with the PowerPoint presentation and lecture on Introduction and Basics of space maintainers used in Paediatric Dentistry followed by detailed description of Band and Loop Space Maintainer, its indication, contraindication and factors to be considered before selecting a space maintainer, case selection, its construction and modification was described in detail.

The presentation was followed by hands on demonstration of Band and Loop space maintainer fabrication. It started with the brief description of armamentarium used, its clinical importance, methods to handle the instrument, fabrication of Band on tooth, uses of welding machine, followed by loop formation. A brief demonstration about soldering was also given.



OUTCOMES:

All attendees were given a chance to fabricate band and loop on individual level and submission for same was also made in the department.



*Atichhi*  
HOD  
Dept. of Pediatric And Preventive Dentistry  
(Dr. Atichhi Gupta)  
Prof & Head -



**SANTOSH**  
DENTAL COLLEGE & HOSPITAL

Clinical/ Skill Training  
Program/Simulation

Topic: Fabrication of acrylic resin post & core pattern by direct technique on a multirouted endodontically treated tooth.

Faculty In-charge: Dr. S. V. Singh

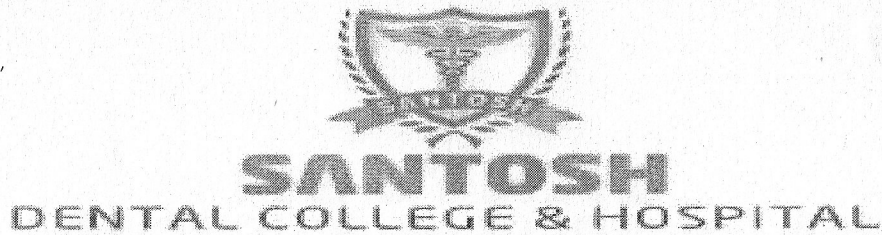
Total No. of Students Attended: 22

Objective: Help to sensitize the students prior to patient exposure and strengthen their core practical concepts and prosthetic skills.

Activities: Hands-on and Demonstration.

OUTCOMES: The candidates learnt the art of saving of grossly decayed and hopeless teeth.





Topic: Incision designing in Periodontics: Surgical Decision & Incision Precision

Faculty In-charge: Dr. Priyanka Aggarwal

Total No. of Students Attended: 31

Objective: The main focus of the skill conclave was on making the students aware of the different types of Incisions in Periodontics and to make them practice the same on the models.

Activities: The various types of incisions, their indications, and the procedure to give the same were demonstrated. Thereafter the students were made to practice the incisions on casts.

OUTCOMES: The students were given a glimpse of the different incisions employed in various flap designs. This not only enhanced their skill but also served as a motivating factor for those students who want to pursue their master's in periodontology.

*Dr. Priyanka Aggarwal*  
11/10/22



**SANTOSH**  
DENTAL COLLEGE & HOSPITAL

Clinical/ Skill Training Program/Simulation

Topic: Extra oral Radiography – OPG and CEPHALOGRAM

Faculty In-charge: Dr. Chandni batra

Total No. of Students Attended: 10

Objective: Allows the UG trainees to practice radiological techniques and radiographic interpretation.

It helps to sensitize students prior to patient exposure and strengthen their core practical concepts and diagnostic Skills.

Activities: Techniques and procedure of taking extraoral radiographs such as pa view, paranasal view submentovertex view, tmj viws ,hand wrist radiographs.

Outcomes: The students were given exposure to different extaroral radiographic procedures and techniques which is a effective tool in patient education, motivation and treatment planning.

*Dr Chandni*  
11/10/22

**CLINICAL/ SKILL TRAINING PROGRAM/SIMULATION**

**Topic:** Closed Reduction Techniques For Mandibular Fracture

**Faculty In-charge:** Dr. Amit B. Lall, Dr. Mayank Singhal and Dr. Sanjeev Tomar.

**Total No. of Students Attended:** 64


**Objective:** To impart theoretical and working hands-on knowledge about management of various closed reduction techniques for mandibular fractures.

**Activities:** The students were provided with models and armamentarium to practice various hands- on closed reduction techniques.

**Outcomes:** The students gained knowledge for the diagnosis and treatment planning of mandibular fractures.

The students will be able to manage mandibular fractures by closed reduction





# **SANTOSH**

**Deemed to be University**