

DS-VAC-2208

Static Mechanics in Dentistry

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Date: 26.04.2023

Hyderabad

To

The Principal/Dean,

Malla Reddy Institute of Dental Sciences,

Suraram.

Sub: Permission to conduct Static Mechanics in Dentistry course for Postgraduates

Respected Sir,

The Curriculum Committee of MRIDS would like to organize Static Mechanics in Dentistry course for I & II MDS students. The program details are as mentioned below,

Resource person – DR. S. UDAYA BHASKAR :Dean Academics, Malla Reddy Engineering College, Gundlapochampally

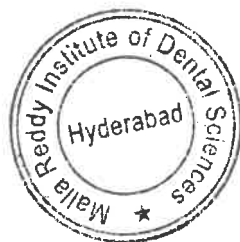
Venue – Lecture Hall - 1, 2nd floor, MRIDS

Time – 9.00 AM – 4.30 PM

Date – 3rd -5th May 2023

Kindly grant us permission for the same and support the event.

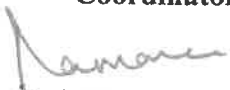
Thanking you.



Yours faithfully,


Principal / Dean
Malla Reddy Institute of Dental Sciences

Coordinator


Principal / Dean
Malla Reddy Institute of Dental Sciences



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Ref No: MRIDS/Circulars/VAC/2023/Apr -03

Date: 27.04.2023

Hyderabad

CIRCULAR

Malla Reddy Institute of Dental Sciences is conducting Static Mechanics in Dentistry course for I & II MDS students from 3rd -5th May 2023. Students have to register with the program coordinator Dr.Saritha Madham.

Resource person – DR. S. UDAYA BHASKAR: Dean Academics, Malla Reddy Engineering College, Gundlapochampally

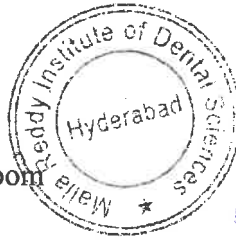
Venue – Lecture Hall - 1, 2nd floor, MRIDS

Time – 9.00 AM – 4.30 PM


Date – 3rd -5th May 2023

Copy to:

1. Circulation in student's classroom
2. All HoDs
3. Notice board
4. PA to Principal for filing



PRINCIPAL/ DEAN


Principal / Dean
Malla Reddy Institute of Dental Sciences



Suraram 'X' Roads, Quthbullapur, Hyderabad - 500 055.

Phone : 7997555544

Email: mrids.2012@gmail.com Website : www.mrids.edu.in

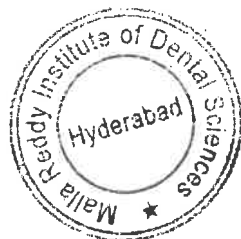
BROCHURE



MALLA REDDY
INSTITUTE OF DENTAL SCIENCES

COURSE OBJECTIVES

- Understand Static mechanics and its applications in dentistry
- Force analysis, stress distribution, and equilibrium
- Prosthetic Dentistry Application
- Orthodontic Integration
- Apply static mechanics principles in real-world scenarios

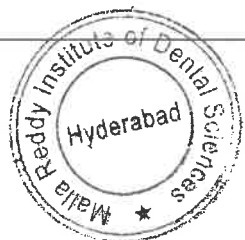


[Signature]
Principal / Dean
Malla Reddy Institute of Dental Sciences
Principal / Dean
Malla Reddy Institute of Dental Sciences

STATIC MECHANICS IN DENTISTRY COURSE DURATION: 22 HOURS

PROGRAMME SCHEDULE

Day	Time	Topics
03.05.2023	09:00 AM - 09:30 AM	- Introduction to Static Mechanics
	09:30 AM - 10:30 AM	- Force Analysis in Dentistry
	10:30 AM - 10:45 AM	BREAK
	10:45 AM - 12:00 PM	- Stress and Strain in Dental Structures
	12:00 PM - 01:00 PM	LUNCH
	01:00 PM - 02:30 PM	- Hands-On Workshop: Force and Stress Analysis
	02:30 PM - 02:45 PM	BREAK
	02:45 PM - 04:00 PM	- Hands-On Workshop: Force and Stress Analysis (cont.)
04.05.2023	04:00 PM - 04:30 PM	- Summary of Key Learnings
	09:00 AM - 10:00 AM	- Biomechanics of dental prostheses
	10:00 AM - 11:00 AM	- Static analysis of implant-supported prostheses
	11:00 AM - 11:15 AM	BREAK
	11:15 AM - 12:00 PM	- Hands-on workshop: prosthetic design and analysis
	12:00 PM - 01:00 PM	LUNCH
	01:00 PM - 02:30 PM	- Biomechanics of dental prostheses (cont.)
	02:30 PM - 02:45 PM	BREAK
05.05.2023	02:45 PM - 04:00 PM	- Hands-on workshop: prosthetic design and analysis (cont.)
	04:00 PM - 04:30 PM	- Summary of key learnings
	09:00 AM - 10:00 AM	- Biomechanics of Tooth Movement
	10:00 AM - 11:00 AM	- Treatment Planning and Force Optimization
	11:00 AM - 11:15 AM	BREAK
	11:15 AM - 12:00 PM	- Hands-On Workshop: Orthodontic Mechanics Simulation
	12:00 PM - 01:00 PM	LUNCH
	01:00 PM - 02:30 PM	- Biomechanics of Tooth Movement (cont.)
	02:30 PM - 02:45 PM	BREAK
	02:45 PM - 04:00 PM	- Hands-On Workshop: Orthodontic Mechanics Simulation (cont.)



M. Reddy
Coordinator

N. Reddy
Principal / Dean

STATIC MECHANICS IN DENTISTRY

COURSE SYLLABUS

COURSE DESCRIPTION:

The "Static Mechanics in Dentistry" program provides a comprehensive understanding of the principles and applications of statics in dental practice. Participants will delve into topics such as force analysis, equilibrium, and stress distribution in dental structures and appliances. Through lectures, case studies, and hands-on exercises, attendees will learn to apply static mechanics principles to various dental procedures, including prosthetic design, orthodontic treatment planning, and implant dentistry. Emphasis will be placed on optimizing biomechanical factors to ensure the stability, longevity, and effectiveness of dental interventions.

COURSE OBJECTIVES:

General objective:

- Understand Static mechanics and its applications in dentistry

Specific objectives:

- **Foundational Understanding:** Participants will gain a comprehensive grasp of static mechanics principles in dentistry, focusing on force analysis, stress distribution, and equilibrium.
- **Prosthetic Dentistry Application:** Enable participants to apply static mechanics concepts to the design and analysis of dental prostheses, ensuring optimal function and durability.
- **Orthodontic Integration:** Equip participants with skills to utilize static mechanics principles in orthodontic treatment planning, optimizing force systems for efficient tooth movement.
- **Hands-On Skill Development:** Offer practical workshops for participants to apply static mechanics principles in real-world scenarios, enhancing their analytical and problem-solving abilities.

COURSE TOPICS:

Day 1: Fundamentals of Statics

- Introduction to Static Mechanics
- Force Analysis in Dentistry
- Stress and Strain in Dental Structures
- Hands-On Workshop: Force and Stress Analysis




Principal / Dean
Malla Reddy Institute of Dental Sciences

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Day 2: Prosthetic Dentistry Application

- Biomechanics of Dental Prosthesis
- Static Analysis of Implant-supported Prosthesis:
- Hands-On Workshop: Prosthetic Design and Analysis

Day 3: Orthodontic Mechanics

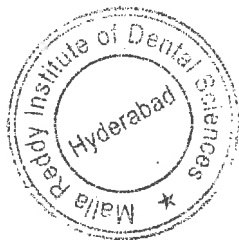
- Biomechanics of Tooth Movement
- Treatment Planning and Force Optimization
- Hands-On Workshop: Orthodontic Mechanics Simulation
- Summary of Key Learnings

COURSE FORMAT:

- AV Presentation
- Discussions
- Static mechanics problem solving

COURSE OUTCOME:

- **Advanced Clinical Decision-Making:** Participants will adeptly apply static mechanics principles, resulting in informed treatment planning and decision-making for prosthetic and orthodontic cases.
- **Optimized Treatment Outcomes:** Integration of static mechanics concepts will yield improved treatment outcomes, including durable and functional dental prostheses and efficient orthodontic tooth movement.



A handwritten signature in black ink, appearing to read "R. S. ...".

Coordinator

A handwritten signature in black ink, appearing to read "Rama ...".

Principal / Dean
Malla Reddy Institute of Dental Sciences
Principal / Dean
Malla Reddy Institute of Dental Sciences



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REPORT OF THE EVENT

08.05.2023

INTRODUCTION:

The "Static Mechanics in Dentistry" program provides a comprehensive understanding of the principles and applications of statics in dental practice. By mastering static mechanics concepts, participants will enhance their clinical decision-making skills and contribute to improved treatment outcomes and patient satisfaction in dental practice.

RESOURCE PERSON - DR. S. UDAYA BHASKAR: Dean Academics, Malla Reddy Engineering College, Gundlapochampally

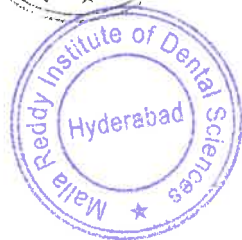
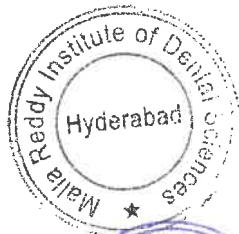
VENUE: Lecture Hall - 1, 2nd floor, Malla Reddy Institute of Dental Sciences

DURATION: 22 hours


TIME: 9.00 AM – 4.30 PM

DATE: 3rd -5th May 2023

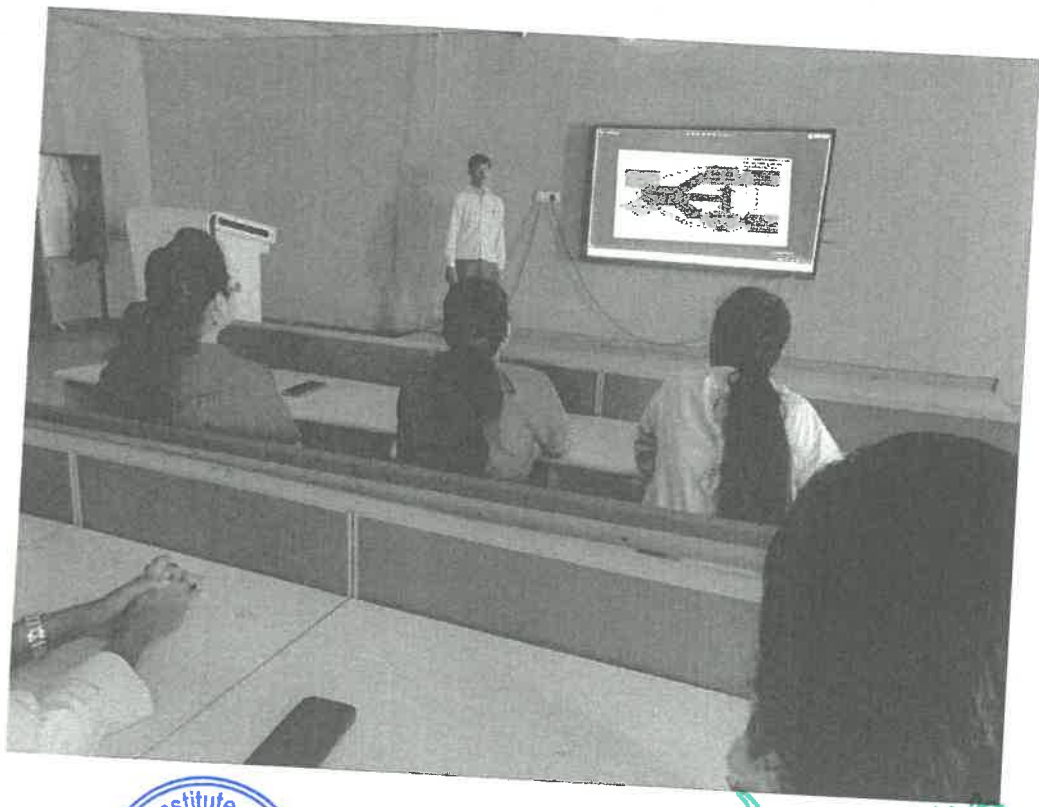
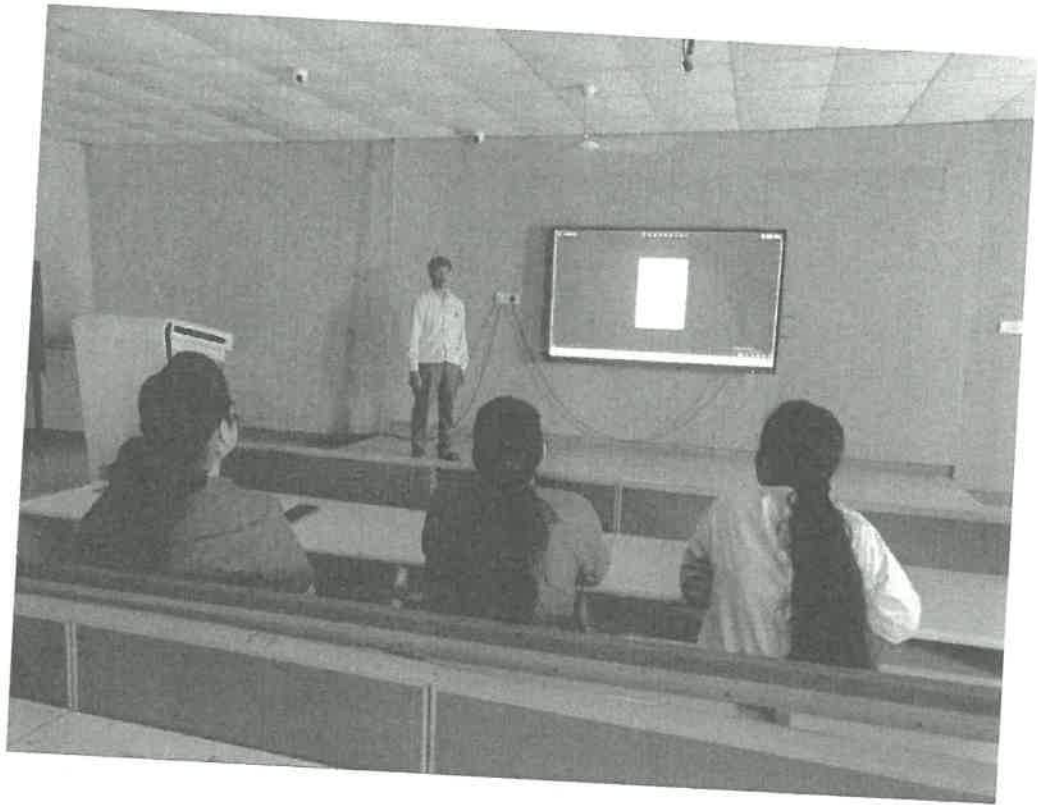
NUMBER OF PARTICIPANTS: 18 students from I & II MDS




Coordinator


Principal / Dean
Malla Reddy Institute of Dental Sciences
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Malla Reddy Institute of Dental Sciences

GLIMPSE OF THE COURSE



Nawans

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Malla Reddy Institute of Dental Sciences



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Static Mechanics in Dentistry	
Course Code: DS-VAC-2208	Year : I MDS, II MDS
DATE: 3 rd -5 th May 2023	Total students Registered: 18
Venue: Lecture Hall - 1, 2 nd floor, Malla Reddy Institute of Dental Sciences	
Time: 09.00 AM to 4.30 PM	

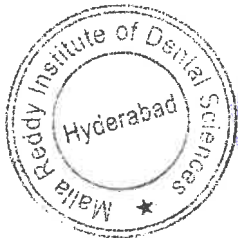
Details of Students registered for Value added Course: Static Mechanics in dentistry

S.No.	Name of the Student	Hall Ticket No.	Registered
1.	AISHWARYA VENKAT	22204109001	Yes
2.	KANDLAPALLI SHRUTI	22204109002	Yes
3.	YEROLLA SAI CHARAN	22204109003	Yes
4.	ANASURI SRIGANDHA	22200109001	Yes
5.	KESANI ANWESHINI REDDY	22200109002	Yes
6.	S SRUJANA	22203109001	Yes
7.	SOSAN FATIMA	22203109002	Yes
8.	K DEEPIKA	22201109001	Yes
9.	PAYAL SONI	22201109002	Yes
10.	IRUVURI YASASWINI	21204109001	Yes
11.	THATAVARTHI SREE HARIKA	21204109003	Yes
12.	PINNAMANENI KAVYA	21204109002	Yes
13.	BEECHUPALLI ANSHULA REDDY	21201109001	Yes
14.	SATYA RAJA SHREE M	21201109002	Yes
15.	AJJARAPU SAISOWJANYA	21200109001	Yes
16.	FIRDOUS SULTANA	21200109002	Yes
17.	AMEENA SANA	21203109001	Yes
18.	GADUSU BHARATH KUMAR REDDY	21203109002	Yes

Coordinator

Academic Dean

Principal/Dean



Principal / Dean
Malla Reddy Institute of Dental Sciences
Principal / Dean
Malla Reddy Institute of Dental Sciences

Suraram 'X' Roads, Quthbullapur, Hyderabad - 500 055.

Phone : 7997555544

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Static Mechanics in Dentistry	
Course Code: DS-VAC-2208	Year : I MDS, II MDS
DATE: 3 rd -5 th May 2023	Total students Registered: 18
Venue: Lecture Hall - 1, 2 nd floor, Malla Reddy Institute of Dental Sciences	
Time: 09.00 AM to 4.30 PM	

Details of Students successfully completed Value added Course: Static Mechanics in dentistry

S.No.	Name of the Student	Hall Ticket No.	Successfully completed
1.	AISHWARYA VENKAT	22204109001	Yes
2.	KANDLAPALLI SHRUTI	22204109002	Yes
3.	YEROLLA SAI CHARAN	22204109003	Yes
4.	ANASURI SRIGANDHA	22200109001	Yes
5.	KESANI ANWESHINI REDDY	22200109002	Yes
6.	S SRUJANA	22203109001	Yes
7.	SOSAN FATIMA	22203109002	Yes
8.	K DEEPIKA	22201109001	Yes
9.	PAYAL SONI	22201109002	Yes
10.	IRUVURI YASASWINI	21204109001	Yes
11.	THATAVARTHI SREE HARIKA	21204109003	Yes
12.	PINNAMANENI KAVYA	21204109002	Yes
13.	BEECHUPALLI ANSHULA REDDY	21201109001	Yes
14.	SATYA RAJA SHREE M	21201109002	Yes
15.	AJJARAPU SAISOWJANYA	21200109001	Yes
16.	FIRDOUS SULTANA	21200109002	Yes
17.	AMEENA SANA	21203109001	Yes
18.	GADUSU BHARATH KUMAR REDDY	21203109002	Yes

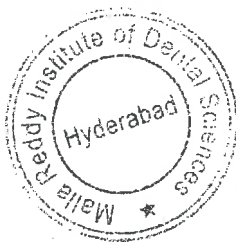
M. P. ...

Coordinator

C. Srilakshmi

Academic Dean

Principal/Dean



Kanmani
Principal / Dean
Malla Reddy Institute of Dental Sciences
Kanmani
Principal / Dean
Malla Reddy Institute of Dental Sciences

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Static Mechanics in Dentistry

Course Code: DS-VAC-2208

Year : I MDS, II MDS

DATE: 3rd -5th May 2023

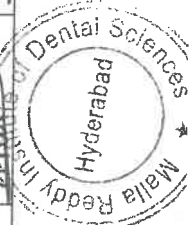
Total students Registered: 18

Venue: Lecture Hall - 1, 2nd floor, Malla Reddy Institute of Dental Sciences

Time: 09.00 AM to 4.30 PM

Attendance sheet for Value added Course: Static Mechanics in dentistry

S.No.	Hall Ticket No.	Name of the Student	03/05/2023 FN	03/05/2023 AN	04/05/2023 FN	04/05/2023 AN	05/05/2023 FN	05/05/2023 FN
1.	22204109001	AISHWARYA VENKAT	Aishwa	Aishwa	Aishwa	Aishwa	Aishwa	Aishwa
2.	22204109002	KANDLAPALLI SHRUTI	Shruti	Shruti	Shruti	Shruti	Shruti	Shruti
3.	22204109003	YEROLLA SAI CHARAN	Charan	Charan	Charan	Charan	Charan	Charan
4.	22200109001	ANASURI SRIGANDHA	AS	AS	AS	AS	AS	AS
5.	22200109002	KESANI ANWESHINI REDDY	Kes	Kes	Kes	Kes	Kes	Kes
6.	22203109001	S SRUJANA	Srujana	Srujana	Srujana	Srujana	Srujana	Srujana
7.	22203109002	SOSAN FATIMA	Sosana	Sosana	Sosana	Sosana	Sosana	Sosana
8.	22201109001	K DEEPIKA	Deepika	Deepika	Deepika	Deepika	Deepika	Deepika
9.	22201109002	PAYAL SONI	Payal	Payal	Payal	Payal	Payal	Payal
10.	21204109001	IRUVURI YASASWINI	Yasika	Yasika	Yasika	Yasika	Yasika	Yasika
11.	21204109003	THATAVARTHI SREE HARIKA	Harika	Harika	Harika	Harika	Harika	Harika
12.	21204109002	PINNAMANENI KAVYA	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya
13.	21201109001	BEECHUPALLI ANSHULA REDDY	Anshula	Anshula	Anshula	Anshula	Anshula	Anshula



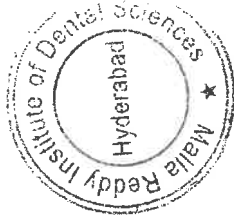
Principal / Dean
Principal / Dean
Malla Reddy Institute of Dental Sciences

14.	21201109002	SATYA RAJA SHREE M	Raja	Raja	Raja	Raja	Raja	Raja
15.	21200109001	AJJARAPU SAISOWJANYA	Ajja	Ajja	Ajja	Ajja	Ajja	Ajja
16.	21200109002	FIRDOUS SULTANA	Sultana	Sultana	Sultana	Sultana	Sultana	Sultana
17.	21203109001	AMEENA SANA	Sana	Sana	Sana	Sana	Sana	Sana
18.	21203109002	GADUSU BHARATH KUMAR REDDY	Gadu	Gadu	Gadu	Gadu	Gadu	Gadu

Coordinator

Academic Dean

Dean



Nanana

Principal / Dean
Malla Reddy Institute of Dental Sciences

Principal / Dean
Malla Reddy Institute of Dental Sciences

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Certificate of Completion

This is to certify that Dr. AISHWARYA VENKAT
of I Year MDS, bearing roll no: 22204109001 has
successfully completed the Value-added Course -
STATIC MECHANICS IN DENTISTRY conducted in the
institute from 3rd May 2023 to 5th May 2023.



M. Reddy
Coordinator

C. Sivitha

Academic Dean

[Signature]
Principal / Dean

Principal / Dean

Malla Reddy Institute of Dental Sciences



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Certificate of Completion

This is to certify that Dr. KANDLAPALLI SHRUTI
of I Year MDS, bearing roll no: 22204109002 has
successfully completed the Value-added Course -
STATIC MECHANICS IN DENTISTRY conducted in the
institute from 3rd May 2023 to 5th May 2023.


Coordinator





Academic Dean

Principal/ Dean


Principal/Dean

Malla Reddy Institute of Dental Sciences

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Certificate of Completion

This is to certify that Dr. YEROLLA SAI CHARAN,
of I Year MDS, bearing roll no: 22204109003 has
successfully completed the Value-added Course -
STATIC MECHANICS IN DENTISTRY conducted in the
institute from 3rd May 2023 to 5th May 2023.



M. Srinivas
Coordinator

C. Srinivasa

Academic Dean

Principal/ Dean

Principal/ Dean
Malla Reddy Institute of Dental Sciences

Malla Reddy Institute of Dental Sciences

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Certificate of Completion

This is to certify that Dr. ANASURI SRIGANDHA
of 1 Year MDS, bearing roll no: 22200109001 has
successfully completed the Value-added Course -
STATIC MECHANICS IN DENTISTRY conducted in the
institute from 3rd May 2023 to 5th May 2023.



M. Reddy
Coordinator

C. Srinivasa

Academic Dean

Principal/Dean

Principal / Dean
Malla Reddy Institute of Dental Sciences

Feedback analysis of students on Value Added Course

Academic Year : 2022-2023

Name of the VAC: Static Mechanics in dentistry

Year: I MDS, II MDS

Course Code: DS-VAC-2208

Students Registered:

18

Students feedback on course conducted, on the scale of 1 to 5 for each of the following parameters.
(1- strongly Disagree, 2- Disagree, 3- Uncertain, 4- Agree, 5- Strongly Agree)

Sl. No	Attributes	5	4	3	2	1	Average Score
1	Speaker presented information in a clear and organized manner	13	2	2	1		4.50
2	The course objectives were met	16	1		1		4.78
3	Examples of cases were shown to facilitate understanding	14	2	1	1		4.61
4	Speaker included opportunities to learn interactively	13	3	2			4.61
5	Relevancy of the content to professional activities was a reason for you to participate	15	2	1			4.78
6	Usefulness of handouts and audiovisual materials	13	2	2	1		4.50
7	The course content met your expectations	15	2	1			4.78
8	Given sufficient time to complete the task in workshop	11	3	3	1		4.33
9	The provided information is Clear and comprehensive	14	2	1	1		4.61
10	The meeting room and facilities were comfortable and adequate	12	2	2	2		4.33

Suggestions: More problem solving needed


Coordinator




Principal / Dean
Malla Reddy Institute of Dental Sciences


Principal / Dean
Malla Reddy Institute of Dental Sciences