



**RANJEET DESHMUKH DENTAL COLLEGE
AND RESEARCH CENTRE, NAGPUR**

Board of Research Studies

Topic- Scope of research in biomedical devices

Speaker- Dr Saee Deshpande

Venue: Oral pathology lecture hall, RDDCRC, Nagpur Date- 21st October 2024

Brief report :

To promote the innovations in dental research board of research studies (BORS) organized a CDE programme on this occasion.

The speaker was **Dr Saee Deshpande** (Professor, Dept of Prosthodontics, and Co-ordinator Incubation Cell, RDDCRC, Nagpur).

Dr. Vrushali Modi (Member BORS, RDDCRC, Nagpur) welcomed and introduced the speaker to the audience.

Dr Deshpande explained that scope of research in biomedical devices in dentistry is expanding rapidly as advances in engineering, materials science, and digital technology transform oral healthcare. She emphasized that innovations such as smart dental implants, bioactive materials, 3D-printed prosthetics, nanotechnology-based coatings, and sensor-integrated orthodontic appliances are opening new possibilities for improving precision, durability, and patient comfort. She discussed that research in this field also explores diagnostic devices—including intraoral scanners, optical imaging tools, and AI-assisted detection systems—that enhance early identification of dental diseases. She expressed confidence that with continuing interdisciplinary collaboration, biomedical device research is poised to address unmet clinical needs, streamline workflows, and contribute to safer, more effective, and personalized dental care.

Dr Abhay Kolte (Dean and Chairman of BORS, RDDCRC, Nagpur) and Dr Mukta Motwani (Vice Dean and Co-Chairman BORS, RDDCRC, Nagpur) felicitated the speaker.

The programme was attended by under-graduate students, and it was well received by the audience.

Dr Abhay Kolte

Dean, Chairman BORS-RDDCRC, Nagpur

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