



Business Incubator

Recognised by MSME, Govt of India

Ranjeet Deshmukh Dental College and Research Centre, Nagpur

Inspection of by MSME, DFO, Nagpur Officials Conducted on 8th October 2024



Inauguration of Incubation Cell at the Hands of
Hon'ble Dr. Ashish Deshmukh Sir





सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय

MINISTRY OF

MICRO, SMALL & MEDIUM ENTERPRISES



सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय

MINISTRY OF

MICRO, SMALL & MEDIUM ENTERPRISES

Participated as HI in 2025

MSME IDEA HACKATHON 5.0

Smart and Sustainable MSMEs

HOME

REGISTRATION

LOGIN

FORWARDER

HACKATHON RESULTS

List of Host Institute (HI)

Search

Filter

S.No.	HI Name	Date	District	Address of HI	Contact No.
202	Rachhewar Tawar Mahesh Nagar University	04/04/2024	MAHARASHTRA	University campus, Acharya Road, Nagpur	9122520417
204	MT POLYTECHNIC, Solapur	04/04/2024	MAHARASHTRA	Sonye No 102, Mahadev Nagar Road, Near Post Office, Solapur	9712140230
205	Ranjeet Deshmukh Dental College and Research Centre, Nagpur	04/04/2024	MAHARASHTRA	Ranjeet Deshmukh Dental College and Research Centre, Sagar Hills, Acharya Road, Nagpur-460013	9716436100
206	Government College of Engineering	04/04/2024	MAHARASHTRA	Government College Road, Nagpur	9122520417

Financial Assistance under the Scheme:

- Up to maximum of Rs. 15 lakh per idea provided to HI for developing and nurturing the ideas.
- Up to Rs. 1.00 cr. (max) provided to HI for procurement and installation of relevant plant and machines including hardware and software etc. in BI for R&D activities and common facilities for incubatees of BI

RANJEET DESHMUKH DENTAL COLLEGE
& RESEARCH CENTRE, NAGPUR
(FORMERLY: VSPM DENTAL COLLEGE AND RESEARCH CENTRE, NAGPUR)

Congratulations



APPROVED AS HOST INSTITUTE FOR THE MSME
INNOVATIVE SCHEME (MSME CHAMPION SCHEME)

We are honored to serve as a Host Institute under
the esteemed MSME Innovative Scheme (Incubation
Component), as approved during the 8th PMAC
Meeting held on November 29th 2024 in New Delhi.



Board of Research Studies (BORS)

Ranjeet Deshmukh Dental College and Research Centre, Nagpur

Activities 2024-25



Topic - Challenges in Biomaterials with Special Attention to Dentistry
Speaker - Prof Jatin Bhatt
Date - 26th July 2024



Topic - Grant opportunities for dental research
Speaker - Dr. Saeed Deshpande
Date - 30th July 2024



Topic - Concept of IPR and its implications in dentistry
Speaker - Dr. Chetana Makade
Date - 30th July 2024



Topic - Qualitative research
Speaker - Dr. Madhur Gupta
Date - 23rd August 2024



Topic - Systematic review and meta-analysis
Speaker - Dr. Kalyani Deshmukh
Date - 3rd September 2024



Topic - Critical evaluation of scientific publications (Journal Club)
Speaker - Dr. Kalyani Deshmukh
Date - 3rd September 2024



Topic - Scope of research in biomedical devices
Speaker - Dr. Saeed Deshpande
Date - 21st October 2024



Topic - Role of computers and AI in dental research
Speaker - Dr. Amit Nakanekar
Date - 19th November 2024



Topic - Ethical considerations in biomedical research
Speaker - Dr. Ashish Bodhade
Date - 2nd December 2024



Topic - Writing research protocol
Speaker - Dr. Neelam Pande
Date - 24th December 2024



Topic - Research Methodology Workshop
Date - 8th-10th January 2025



Board of Research Studies (BORS)

Ranjeet Deshmukh Dental College and Research Centre, Nagpur

Activities 2024-25



Topic - Questionnaire designing
Speaker - Dr. Tapasya Karemore
Date - 9th January 2025



Topic - Role of diagnostic tests in research
Speaker - Dr. Meenal Kulkarni
Date - 6th February 2025



Topic - Introduction to research in dentistry
Speaker - Dr. Abhay Kolte
Date - 25th February 2025



Topic - Synopsis writing
Speaker - Dr. Mukta Motwani
Date - 3rd March 2025



Topic - A practical guide for conducting literature search
Speaker - Dr. Ashish Bodhade
Date - 24th March 2025



Topic - Inferential statistics
Speaker - Dr. Sachin Khatri
Date - 7th April 2025



Topic - Planning and executing descriptive studies
Speaker - Dr. Rajshri Kolte
Date - 25th April 2025



Topic - Research in dentistry: A Beginner's Guide
Speaker - Dr. Pranjali Bawankar
Date - 19th May 2025



Topic - Sustainability: Need for collaborative Efforts
Speaker - Dr. Nitin K. Labhsetwar
Date - 3rd June 2025



Topic - Leveraging AI tools to Enhance Academic Research - A Scientific Exploration
Speaker - Dr. Mahendra Patil
Date - 11th June 2025



Topic - The Curious Dentist: Turning Everyday Dentistry into Research
Speaker - Prof. (Dr.) Anurag Satpathy
Date - 27th June 2025



Innovation and Incubation Cell

Ranjeet Deshmukh Dental College and Research Centre, Nagpur

Capacity Building Activities for Staff and Students 2020-2022



Title of programme: Introduction to Patent Process
Date: 4th August 2020, Online Zoom Platform
Speaker: Dr Bharat Suryawanshi



Programme title: Scope and Challenges in Biomedical Research
Speaker: Dr Vibha Bora
(In Charge BETIC Centre, GH Raisoni College of Engineering, Nagpur)
Date: 12 August 2020



Speakers and Topics:
• Grants opportunities for Research / Projects in health sciences
Dr Qasim Syed Zahiduddin
• Writing a research proposal for competitive grants
Dr Akhaya Baidhane
Date: 25 August 2020 | Time 11-1pm



Topic: Cochrane systematic reviews and meta-analysis: importance and how to conduct
Speaker: Prof. Balendra Pratap Singh,
Date: 12th August 2021



Topic: Innovation and Academia: Nurturing the Ecosystem
Speaker: Dr. Punit Fulzele
Webinar
Date: 16 July 2021 | Time : 9am IST



Title: Emerging Avenues in Oro-facial Regeneration
Webinar - Date: 24th Feb 2021
Speaker: Dr. Hemant Unadkat



Speaker: Dr. Anubhuti Charbe
Masters of Public Health (Biostatistics and Epidemiology) USA
Bachelors of Dental Surgery, MUHS, India
Research Scientist (Biostatistician and Epidemiologist), California, USA



Webinar on Manuscript Writing
Date: 11th Oct 2022 | Time : 1.30-3pm IST, via Zoom online platform
Speaker: Dr. Ashish Kumar MDS (Periodontics), MFDS RCPS
EDITOR- Journal of Indian Society of Periodontology



Webinar on Bio-medical Devices
Speaker: Dr. Rashmi Vikram Uddanwadiker
Date: 17th Feb 2022 | Time: 10-11 am IST





Innovation and Incubation Cell

Ranjeet Deshmukh Dental College and Research Centre, Nagpur

Capacity Building Activities for Staff and Students 2023-2024



Topic - Role of stem cells in dental research
Date - 3rd Nov 2023
Speaker - Dr Abhay Kolte



Topic - Innovation & Entrepreneurship Avenues for Biomedical Researchers
Date - 15th Dec 2023
Speaker - Dr Abhijit Raut



Topic - National Start Up Day CDE
Date - 19th Jan 2023
Speaker - Dr Abhijit Raut



Topic-Brainstorming session:
Scope of device development in oral surgery, oral medicine and radiology and oral pathology
Date - 19th Jan 2024
Speaker - Dr Abhijit Raut



Topic - Brainstorming session:
Scope of device development in pedodontics and conservative dentistry
Date - 6th Feb 2024
Speaker - Dr Abhijit Raut



Topic-Brainstorming session:
Scope of device development in Pedodontics and Conservative Dentistry
Date - 15th March 2024
Speaker - Dr Abhijit Raut



Topic-Planning and executing short term research project
Date - 5th April 2024
Speakers - Dr Abhay Kolte
Dr Mukta Motwani, Dr Saeed Deshpande, Dr Ashish Bodhade



Topic - IPR management of bio-medical Devices
Date - 7th May 2024
Speaker - Dr Abhijit Raut



Topic - Challenges in Biomaterials with Special Attention to Dentistry
Speaker - Prof. Jatin Bhatt
Date - 26th July 2024



Innovation and Incubation Cell

Ranjeet Deshmukh Dental College and Research Centre, Nagpur

Capacity Building Activities for Staff and Students 2023



Biomedical Device Development Competition
Date: 17 Feb 2023 | Time-10-30am to 12noon
Venue: Conference room, Dental Building



Basic Research Methodology Workshop
Date: 12-14 July 2023



Target audience:
Dental undergraduates and post-graduates
Date: 23rd August 2023 | Time: 9 -10am
Venue:
Prosthodontics Lecture Hall, VSPMDCRC, Nagpur

**Add On Course on
Biomedical Device Development**



**Topic - Systematic approach for
bio-medical device development**
Date- 9th August 2023
Speaker- Dr Abhijit Raut



**Topic - Scope of collaborative research in
bio-medical device development**
Date- 23rd August 2023
Speaker- Dr Chetana Makade



Advanced Research Methodology Workshop
Date: 4th - 9th Sep 2023



Topic - Secondary Research
Date 4th Oct 2023
Speaker -Dr Mukta Motwani



Topic - Regulatory aspect of bio-medical research
Date - 18th Oct 2023
Speaker - Dr Ashish Bodhade



Topic - Interns Research Project Presentations
Date-23rd Oct 2023
Mentors: Dr Surekha Ratho
Dr Saeed Deshpande



Innovation and Incubation Cell

Ranjeet Deshmukh Dental College and Research Centre, Nagpur

Grants, Awards and Recognitions



Prestigious awards at the Patent and Idea Fest 2023
(One of the Top 5 Innovation Campus, Best Patent Award and Best Idea Award)



G H RAISONI COLLEGE OF ENGINEERING
(An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Dual Accredited by AACSB, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018
Ranked 130* by NIRF, India in the Engineering category for India Ranking 2021
Ranked 1* by ARDS 2021, India in the Private Engineering category for India Ranking 2021

Date: 20/08/2022

This is to certify that, the project titled "SMART CHAIRSIDE TMJ EXAMINATION AND MUSCLE ACTIVITY DETECTOR TOOL" - Easy way to sense the onset of Oral Cancer (Mukh kark rog ki shuruaat ko janne ka aasan tarika) 2022 has received Unnat Bharat Abhiyan 'Others SED' Grant (RP-035256) on 3rd April, 2022. The grant amount of worth Rs 1 lac was received at G H Raisoni College of Engineering, Nagpur.

This project is a collaborative project under MoU between two institutes.

Dr. Tapasyn Karmore, MDS, Associate Professor & Dr. Mukta Motwani, MDS, Professor, Oral Medicine & Radiology from YSRM Dental College, Nagpur, Dr. Vibha R.Bora, BETIC Incharge & Prof. Suraj Dumbre, BETIC Member from GHRCE, Nagpur are jointly working on the project.

Director
Dr. Sachin Untawale
G H Raisoni College of Engineering,
Nagpur

RAISONI
COLLEGE OF ENGINEERING



LIST OF EQUIPMENTS FOR RESEARCH

Sr. No.	Equipment/ Machine	Department
1	Orthopantomogram (OPG) Machine	Oral Medicine and Radiology
2	Lateral Cephalograph Machine	Oral Medicine and Radiology
3	RVG (4 units)	Prosthodontics, periodontics, Pedodontics, Endodontics
4	CBCT Machine	Oral Medicine and Radiology
5	Soft tissue laser	Periodontics
6	Piezosurgery Unit	Periodontics
7	Hard tissue laser	Endodontics
8	Centrifugal Machine	Periodontics
9	Electrocautery Machine	Periodontics
10	Biostar Machine	Orthodontics
11	Sedation unit	Pedodontics
12	Endomicroscope	Endodontics
13	Metal Ceramic and All ceramic Furnace	Prosthodontics
14	Induction casting machine	Prosthodontics
15	Implant kit and Physiodispensor	Prosthodontics
16	Acrylizer unit	Prosthodontics
17	Dewaxing Unit	Prosthodontics
18	Surveyor	Prosthodontics
19	Articulators	Prosthodontics
20	Research Microscope	Oral Pathology

LIST OF FUNCTIONAL MOUS

Sr. No.	Name of the partnering institution/industry/research lab/corporate house
1	MAHA Metro, Nagpur.
2	Institute of Dental Sciences, Kingsway, Nagpur.
3	Directorate general ESI corporation, Nagpur.
4	Rashtrasant Tukdoji Maharaj Regional Cancer Hospital
5	Department of Physical education Institute. Nagpur.
6	Kishoritai Bhojar College of Pharmacy, Kamptee
7	VNIT, Nagpur
8	GH Rasoni College of Engineering, Nagpur
9	Datta Meghe Institute of Medical Sciences, Wardha
10	BETIC. G H Rasoni College of Engineering, Nagpur
11	Narotam Sekhsaria Foundation, Bombay.
12	Swachh Association, Nagpur
13	Department of Statistics Institute of Science, Nagpur
14	GH Rasoni College of Engineering, Nagpur Testing
15	Praj metallurgical laboratory, Pune
16	Dr. Vivek Hegde



INNOVATION AND INCUBATION CELL

Ranjeet Deshmukh Dental College and Research Centre, Nagpur



VISION

To promote generation of innovative research ideas and their translation into practice in the field of healthcare through development of bio-medical devices

MISSION

- To conduct capacity building programmes to increase the awareness regarding innovation and entrepreneurship
- To provide mentoring support, necessary infrastructure and funds for the innovation

EXECUTIVE COMMITTEE

Working Committee

Dr. Abhay Kolte

Dean and Chairman BORS

Prof and Head, Dept of Periodontics

Dr. S. R. Sheno

Vice-Dean and PG Director

Prof and Head,
Dept of Oral & Maxillofacial Surgery

Dr. Mukta Motwani

Vice Dean Clinical and Co-chairman BORS

Prof and Head,
Dept of Oral Medicine & Radiology

Dr. Saeesh Deshpande

Co-Ordinator

Professor, Dept of Prosthodontics

Prof. Abhijeet Raut (B.E., M.Tech)

Research Mentor

Advisors

Dr. Ashish Jain

Professor and Head, Department of
Periodontology,
Dr. H. S. Judge Institute of Dental Sciences,
Punjab University, Chandigarh.

Dr. Jaideep Mahendra

Post Graduate Director, Professor
Periodontology,
Meenakshi Ammal Dental College, Chennai.

Dr. Rashmi Uddanwadikar

Associate Professor, Department of
Mechanical Engineering,
Visvesvaraya National Institute of Technology,
Nagpur.

Dr. Punit R. Fulzele

Project Manager, DMIMS NEWGEN IEDC, SP
Dental College, Wardha.

FLAGSHIP SCHEMES

- RD Innovation Fund
- Patent support and Incentive
- Publication incentive
- Research grant for Interns and Post-graduate students
- Collaborative research grant
- Financial support to participate in conferences and workshops



LIST OF PATENT APPLICATIONS (PUBLISHED & APPLIED)

Sr. No.	Name of Staff Member	Name of the Department	Year	Title	Applied/ Published
1	Dr. Sandeep Khandaitkar Dr. Shashank Hiwarkar Dr. Gagandeep Lamba	Oral Surgery	2022	A maxillo - mandibular fixation device	Published
2	Dr. Pranjali Bawankar Dr. Abhay Kolte	Periodontics & Implantology	2023	Vitamin D3 in situ gel formation and method of preparation thereof.	Published
3	Dr. Neelam Pande	Prosthodontics	2023	A device to receive Full porcelain-fused-to- metal restorations	Published
4	Dr. Surekha Rathod Dr. Pranjali Bawankar Dr. ShivshankarJadhav	Periodontics & Implantology	2022	A Gel Composition for treatment of chronic periodontitis and method preparation thereof	Published
5	Saee Deshpande	Prosthodontics	2022	"A device to check tissue compressibility for edentulous patients"	Applied
6	Dr. Pranjali Bawankar	Periodontics and Implantology	2023	'Vitamin D3 insitu gel formulation and method of preparation thereof.'	Published
7	Dr. Abhay Kolte	Periodontics and Implantology	2023	'Stabyent Dental Implant System.'	Published
8	Dr. Surekha Rathod	Periodontics and Implantology	2023	A process for preparation of Psidium Gujava leaf extract & Syzygium Cumini seed extract for the treatment of chronic periodontitis	Published
9	Dr. Pande Neelam	Prosthodontics	2023	Patent applied for 'A device to receive full porcelain fused to metal restoration'	Published
10	Dr Surekha Rathod (Periodontics)	Periodontics and Implantology	2024	A dentognathic model for crown lengthening procedure.	Published
11	Dr. Rajashri Kolte (Periodontics)	Periodontics and Implantology	2024	A dental device for intraoral visibility and photography aid	Published
12	Dr. Sandeep Khandaitkar	Oral Surgery	2024	'An Intermaxillary fixation screw.'	Published
13	Dr. Dhawal Mody	Periodontics	2024	"Mocoadhesive proniosomal gel formulation comprising doxycycline and preparation method thereof."	Published
14	Dr. Rajesh Kubde	Conservative Dentistry and Endodontics	2024	"Device for trimming precise length of gutta perchas master cone for endodontic procedures."	Published
15	Dr. Pranjali Bawankar	Periodontics and Implantology	2024	"An Insitu gel formulation comprising vitamin D3 and preparation method thereof."	Published
16	Dr. Pranjali Bawankar	Periodontics and Implantology	2024	"A self retained intraoral retractor cum bite block."	Published
17	Dr. Surekha Rathod	Periodontics and Implantology	2024	"A Novel ZR55C030T115 Alloy"	Published
18	Dr. Abhay Kolte (Periodontics)	Periodontics and Implantology	2024	"Herbal Chewing Gum formulation combining neem extract and preparation method thereof"	Published
19	Dr. Abhay Kolte (Periodontics)	Periodontics and Implantology	2024	"Adjustable Interdental papillary elevation tool"	Published
20	Dr. Surekha Rathod (Periodontics)	Periodontics and Implantology	2024	"A Dental gel formulation and preparation method thereof"	Published
21	Dr. Kamalkishor Mankar (Periodontics)	Periodontics and Implantology	2024	"A topical Dental gel formation comprising erythropoietin and preparation thereof"	Published
22	Dr. Surekha Rathod (Periodontics)	Periodontics and Implantology	2024	"Herbal Mouthwash for oral hygiene maintenance"	Published
23	Dr. Pranjali Bawankar	Periodontics and Implantology	2024	"A Biomaterial based insitu gel and preparation method thereof."	Published
24	Dr. Rajesh Kubde	Conservative Dentistry and Endodontics	2024	"Tongue retractor with a connector for attachment to matrix system."	Published
25	Dr. Ashish Bodhade	Oral Pathology	2024	"Jaw opening exercise tool."	Published
26	Dr. Saee Deshpande	Prosthodontics	2024	"Device for adjustment of occlusal plane."	Published

LIST OF PATENTS GRANTED

Sr. No.	Name of Staff Member	Name of the Department	Year	Title
1	Dr. Abhay Kolte, Dr. Girish Bodhare Dr. Rajashri Kolte	Periodontics & Implantology	2017	A device used to measure intraoral dimensions required for implant placement (Patent)
2	Dr. Surekha Rathod, Dr. Noopur Gonde Dr. Srushti Dhande	Periodontics & Implantology	2021	A Process for Preparing stable locally acting sustained release composition of melatonin.
3	Dr Pranav Ingle, Dr. Jui Karmarkar Dr. Nilima Budhraje, Dr. S.R. Sheno, Dr. Vrinda Kolte	Oral and Maxillofacial Surgery	2021	PI-Plate: Innovative bone plate design for management of sub- condylar fracture by open reduction and Internal Fixation
4	Dr. Abhay Kolte	Periodontics & Implantology	2024	An AI based periodontal diagnostic device
5	Dr. Sandeep Khandaitkar, Dr. Shashank Hiwarkar Dr. Gagandeep Lamba	Oral and Maxillofacial Surgery	2024	A maxillo - mandibular fixation device