

Dayananda Sagar College of Dental Sciences

Policy Document

Promotion of Advance Research Studies

Dayananda Sagar College of Dental Sciences Kumaraswamy Layout, Bangalore - 560 078.

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Dayananda Sagar College of Dental Sciences, Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru

POLICY DOCUMENT FOR ADVANCED RESEARCH STUDIES

Establishment of Policy for Promotion of Advanced Research:

Research is the foundation of knowledge that brings new energy, builds state of the art facilities, promotes research publications, develops collaborations and becomes part of active tommunity that shares the mission objectives. Rapid growth in scientific knowledge is an indication of quest for discovery and has an impact on economic and societal development. Science, technology and innovation are often initiated at the University to create research environment and that is also the mission of Dayananda Sagar College of Dental sciences. Research and developmental activities creates and disseminates new knowledge in a range of fields, promotes innovation and these will motivate better learning and teaching among faculties and students of our institute.

Goal:

To promote research and research culture among faculty and students so that the research productivity of the various departments and institution as a whole is comprehensively enhanced.

Objectives:

- To form sub-committees to shoulder the duties and responsibilities related to planning, organizing and Implementing specific research activities / schemes in the institution.
- 2. To empower the faculty and students in conducting and publishing quality research which can be beneficial to all the stakeholders of health research through conducting regular training programs (seminars, workshops, symposia) in the institution.
- 3. To enable the faculty and students in taking their research output in terms of quality and quantity to next higher level.
- 4. To promote 'funded research projects' in the institution which results in enhancement of scholarship in research.
- To promote the faculty and students in getting patencies in their names for the innovations done by them in the institution and to provide required support system to that end.
- 6. To monitor the research of all the faculty and students in the institution.

7. To keep a constant tab and update the publications of all the departments.

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To guide and scrutinize the research proposal and research writing which is to be sent for publication and funding.

Policy on Promotion of Academic Research

A policy on academic research faculty to promote faculty involvement in research and developmental activities shall be prepared and implemented. This policy shall deal with the higher education and up skilling of faculty members in conducting and publishing research.

The policy will spell out measures to encourage the enrolment of faculty in Ph.D programmes. It shall also declare suitable incentives for Ph.D holders and other faculty who publish research articles in reputed journals.

Policy on Seed Money for Internal Research

- 1. Every faculty is eligible to apply for internal project which shall lead to collaborative / externally funded research projects.
- 2. The college shall provide the basic infrastructure required to conduct research projects.
- 3. Faculties are encouraged to identify inter-disciplinary research in their chosen field of research.
- 4. All innovative projects of faculty completed using the seed money would be earmarked for filing patents.
- 5. Recognition and remuneration will be given to those faculties who get patents.
- 6. The responsibility lies on the faculty members to take appropriate actions so that their innovations are covered by IPR and copyright protected.

Policy on Centre of Excellence

The college shall develop and nurture Centre for Excellence in the frontier areas of research which shall be open to faculty, students and industry persons to conduct research and engage in innovation. The faculty and students commitment to research is enhanced in order to attract funding from governmental / international agencies and also from industry in relevant sectors. Excellence in the research skills from any faculty and student in the institution would be honored with incentives and promotion.

Policy on Consultancy Projects

The college recognizes that consultancy is an effective way to disseminate knowledge. Hence it is seriously committed to make the expertise accessible and available the available to industry and society. The policy enables the researchers to take the research output to the end users by encouraging consultancies.

The college, as a socially responsible institution wants to make an early and direct impact on society through consultancy, whereas maintaining balance between consultancy and the

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traditional role as a teacher. All Research and Non-research consultancies are governed by the established norms as described in the Policy on Consultancy Projects.

Policy on Innovations, Incubations and Entrepreneur Development

Innovation is given thrust in the institution. Students and faculty are encouraged to develop innovative frame of mind. In this regard institution has developed an MOU with the Derby Foundation, Bangalore. Few seminars and lectures were organised related to 'Patency procedural protocols'. Innovations happen when the problems are converted into ideas and, the ideas are further tested.

Creating research and innovation culture in the institution is a priority area and the 'Advanced Research Committee' is working on it. Innovation in research and development (R&D) can be a strategic weapon in which top institutions employ definable strategies and practices to catalyze high levels of organic growth, support above average margins and separate themselves from the competition.

Sustaining innovations: Are improvements that build on existing technology, products/ services, market strategy, etc. also referred to as "incremental" innovations.

Disruptive innovations: They are offerings, processes, methods, technologies, etc. that represent a major shift from everything

The college shall promote Innovations, Incubation, and Entrepreneurial Development among the teachers and students leading to development of innovative, commercially viable and socially relevant products / materials which shall lead to Patents and Copyrights.

Policy on Ethical Research

A separate policy and committee (IRB) is established to review and oversee the ethical issues of the research undertaken. Any research intended to be conducted should first obtain the approval from IRB (Institutional Review Board), without such an approval no research is permitted by the institution. The researcher/s should submit a proposal and that would be scrutinized for its scientific and ethical integrity by the IRB. There are internal and external members in the IRB who have the required expertise to scrutinize the proposal. The committee conducts meeting periodically for the same purpose and the researcher has to present the proposal in front of the committee.

Establishment of Intellectual Property Rights (IPR) Cell

Steps shall be taken to establish an Intellectual Property Right Cell to assist the researchers and inventors to get protected their inventions and intellectual properties. A separate cell shall be created with the assistance from Central and/or state government. In this connection our institution has conducted multiple CDE programs on IPR related topics. Experts in the area have catered to the intellectual needs of our researchers.

Constitution of the Advanced Research Committee

- Chairperson
- Co-chairpersons
- Member Secretary
- Members

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Dayananda Sagar College of Dental Sciences is fully committed towards excellence in research through promoting quality processes in the conduct of research activities undertaken by the faculty of the Institution. Its researchers are expected to abide by the standards of Institution's expectations of good practice in research by taking all responsible steps towards ethical conduct of research in terms of human participation and data management. To enable this, an Advance Research Committee was constituted. This committee has been formed with the following mandate in mind. This committee will strive:

- To foster an ethical research culture. For this purpose the research Committee will preserve the dignity, privacy rights of those involved in research work.
- To provide orientation training and support to the researchers on best ethical practices and regulatory requirements.
- To provide guidance and individual comments to the researchers for publication.
- To ensure that research is carried out with the approval of the respective Departmental HOD, IRB, RSDC & Principal's office.
- To oversee the policies and practices of the Institution and while overseeing
 this, the committee shall initiate appropriate action where there is evidence
 that the institutions policies are not adhered to.

Objectives of the Advanced Research Committee:

The core objective is to establish a vibrant research culture among the faculty & student community with an interdisciplinary perspective in order to respond to the emerging challenges faced by the society at regional, national and global levels. Research groupings of the allied faculties present on campus facilitates a wide disciplinary range in research to be effective and sustainable in the longer term, developing the next generation of researchers. The other important objectives that committee to cater:

- A conducive research culture which encourages faculty & students to perform to their full potential and facilitates nurturing of future researchers.
- Generates high quality and original research which advances knowledge and practice of dentistry & its diverse areas of studies and, where appropriate, provides a basis for application and knowledge transfer.

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- To support and promote collaboration in research endeavors at a local, national and/or international level with all those who can make a valuable contribution with respect to the initial concept, design, planning, execution, analysis, discussion and dissemination.
- To encourage best practice in the management of institutional research strategies, in terms both of grant-seeking and ensuring project completion.
- To continuing to allocate research funding selectively on the basis of research excellence
- · To recognize and reinforce high quality research
- To promote a culture within the Institution whereby researchers conscientiously reflect on the ethical implications of their research.
- Research projects and action taken will be presented in the monthly periodic faculty meeting
- To support the research base in responding to opportunities in new fields
 of research which are not yet sufficiently developed to attract both internal
 & external funding.

Intra-Mural Funding Program:

One of the main initiatives of the Advance Research Committee has been to constitute a platform for providing Intra-Mural research funding/grants to deserving applicants (under-graduate BDS students, post-graduate MDS students & faculty members) with the ultimate goal of enhancing research activities in the Institution.

Objectives:

- To award funds to eligible groups, individual faculty and students to enable them to pursue research, particularly in the priority areas identified by the Institution:
- To support these investigators so that they may effectively compete for extramural grants;
- · To build research capacity of DSCDS faculty members and students.

INSTRUCTIONS TO THE APPLICANTS:

1. The prescribed application forms can be downloaded from DSCDS website http://www.dscds.edu.in/AdvancedResearch.htm from 1st April 2022

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2. Proposals will be evaluated based on the information provided in Section A and B separately.

3. The technical part of the research proposals (Section B) will be evaluated by the Internal and External Subject Experts for 80 marks. The research proposal which score 70% or more marks in both Internal and external evaluation will be eligible for interview with Research Expert Committee.

 The Subject Experts within the Institution will be Internal evaluators and Subject experts from outside the Institution will be external evaluators.

- 5. The Research Expert Committee will interview the eligible Principal Investigators and Co-investigators. In this interview the Principal Investigator has to score minimum of 50% marks to get selected for award of grants.
- 6. The evaluation criteria for the Subject Experts and the Research Expert Committee will include the following

A. Criteria for evaluating the research proposals by the Internal and

External Experts separately.

SL No.	Criteria	Max. Marks
1.	Originality of the proposal (Following will be taken into consideration) a. Purpose (Novelty/Innovation) b. Tools (Bio-medical/equipment related development) c. Technique(New clinical technique/ improvement over existing technique) d. Procedure (Improvement/ Simplification)	
2.	Expected contribution of the proposed research to knowledge base — (Following will be taken into consideration) a. Upgrading the existing knowledge (Preliminary work already done) b. Totally new research with impact on clinical/public health/health science	15

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3.	Contribution of the proposed research to the society (Following will be taken into consideration) a. In terms of change in policy (Social/Public Health) b. In terms of economics(Cost saving) c. In terms of simplification(Applicability and Acceptability)	20				
4.	Acceptability) Research methodology employed including statistics (Following will be taken into consideration) a. Clear objectives described? b. Clear description of work-plan using CONSORT (RCT) or STROBE (Epidemiology) or ARRIVE (animal research) guidelines c. Is the statistical plan described? Power of the study?					
5.	Ability of the proposal to get grants in future — (Following will be taken into consideration) a. Robustness of the proposal in fundamental/applied aspects b. Does the project fit within major funding drives/collaboration c. Is there an indication of future plans?	10				
6.	TOTAL	80				

B. Criteria for evaluating the research proposals by the Expert

SL No.	Criteria	Max. Marks				
1.	Any grants received from any other funding agency other than DSCDS by the Principal Investigator	01				
2.						
3.	Infrastructural facilities present in the college to carry out the proposed research activity	01				
4.	Any preliminary work done in the same research field by the PI	01				

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5.	Whether running any concurrent PG/Ph.D. courses in the department	01
6.	Assessment of the PI during the interview with the Expert Committee	15
	TOTAL	20

7. The Research Grants will cover the following:

i. Cost involved in getting the required tests/experiments done outside in case of non-availability of infrastructure required in the institution and test reports should be submitted with GST/PAN numbered bills and vouchers without fail for audit purposes.

ii. Junior PG Students / Undergraduate students can be taken as Junior
Research Assistants iii. The non-technical research assistants i.e.
secretarial assistant shall be paid maximum of Rs.1000/- per month and junior research assistant shall be paid maximum Rs.3000/- per month as honorarium.

- iv. Honorarium for the supportive staff (junior research assistant/ nontechnical research assistants), travel, accommodation, stationery, Printing, Publication cost and cost of registration of conferences put together should not exceed 30% of the total project cost.
- v. Presentation of the research paper/poster is admissible only in national conference. Presentation in conferences that are virtual or online in nature is not admissible.
- vi. Publication of the final paper in the Q1 / Q2 indexed national/international journal with high impact factor is mandatory. vii. No grants will be released for the purchase/rental/lease of the equipment's(software/hardware) such as laptop printers, note pads, mobiles, voice recorders, books furniture, pendrive, etc. Equipments/instruments, however small or big should not be purchased from the research grant.
- 8. Institutional (Human) Ethical Committee clearance is mandatory for processing of research proposal and should be submitted while applying for the grants.
- Wherever animal experiments are involved, it is mandatory to have CPCSEA approval of the institution and the Institutional Animal Ethical Committee shall be formed as per CPCSEA guidelines and IAEC clearance of the project is mandatory.

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10. If the research proposal does not involve any human or animal experimentation, then the Principal Investigator and Principal / Head of the Institute shall give an undertaking to that effect.

11. Intellectual Property Rights will be governed as per the guidelines issued

by DSCDS.

12. All the Principal Investigators of the Research Project shall necessarily follow the guidelines issued by Indian Council for Medical Research, Dental Council of India & RGUHS

13. Research grants will not be provided for conducting service camps in the communities, health education programs, routine health checkups and

screening of populations/groups, etc.

14. Such of the PIs who have already received any type of research grant from DSCDS for the previous years are not eligible to apply. However if they have completed the research activity and have published an article out of the research activity in an indexed journal and have obtained completion certificate from the department of Advanced research, DSCDS then such investigators are eligible to apply for this year research grants.

15. The fulltime/permanent teaching faculty working in DSCDS are only

eligible to apply for this research grants.

16. The Principal Investigator can propose maximum of two Co-Principal Investigator out of which First Co-Pl shall be from the same department and same institute where the Principal Investigator is working.

17. For any reason if PI leaves the institute and if the project is not completed, then the PI is responsible and shall mandatorily refund the research grant along with accrued interest to the Institution prior to being relieved from the institution.

18. Guidelines to be adhered by PI's before submitting the bills and vouchers:

- As per the KTPP ACT rules the Head of the Institute and Principal investigator should procure all the research related items other bills will not be accepted.
- All the bills and vouchers should be attested by head of the institute and Pl.
- All the bills and vouchers should be GST bills and bills should have the companies/stores REG number, PAN number, and GST numbers.
- PI should attend the seminar/conference only if they are presenting the
 research paper sanctioned by DSCDS. If the PI submits the bills for
 claiming TA/DA for presenting their research paper, they should
 submit certificate of Paper presentation in the conference and abstract
 that they have presented along with bills.

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- or lab should certify the test reports that they have tested so many samples/Patients and PI should submit the certified reports along with bills
- The PI should submit the vouchers for paying salaries/honorarium to Junior Research Assistants etc. and it should be signed by the receiver, PI and Head of the institute
- If the PI submits the bills for purchasing from their own Institutions /sister concerns, then the pharmacy, shops, labs etc. bills should include GST and bills should have the REG number, PAN number, and GST numbers.
- Statement of Expenditure should be submitted in accordance with the bills enclosed along with details of payment made to the vendors. If bills are not according to the statement of expenditure, then such bills will not be accepted and next instalment will not be released.
- The research grants should be utilized in 70:30 percentage ratio. For each installment 70% utilization for research proper and 30% utilization includes salaries to research assistant, travel, conference in national level, stationery, research publication etc.
- A monitoring committee shall be set up by the Advance research Committee that shall verify the bills and vouchers & whether it has been utilized properly for the research purpose only and duly certify the bills with seal and signature.
- In case of change in PI, the Head of the Department shall intimate the same to Advanced Research Committee, Principal DSCDS and a fresh sanction order shall be received in the name of new PI. Option to change the PI shall be given only once during the complete duration of the study.

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Roles and Responsibilities of the Committee members:

Chairperson

- Responsible for ensuring that the committee members are effectively engaged in order to achieve the objectives of the committee.
- Responsible to make the most of all the committee members, building and leading the team.
- Responsible for giving approval for any activity under the committee.
- Provide general advice and guidance to the staff, committee members and researchers.
- Offer support, and mentorship as required to the co-chairpersons, secretary, assistant coordinators and the members.
- Develops agendas along with the secretary.
- Chair all committee meetings.
- Check and approve the Minutes in a timely manner.
- Has to apprise the Principal of the institution periodically about the activities of the committee and submit a written report annually.
- Responsible for assuming the lead reviewer role for the research synopsis submitted to the board.
- Will actively seek input from committee members during regularly scheduled meetings and conference calls.
- Will actively assign tasks to committee members that are tailored to the needs discussed.

Co-Chairpersons

- In absence of the chairperson, take his/her responsibilities.
- Assist the chairperson in all the duties as assigned by him/her.
- Organize scientific programs after consultation with the chairperson
- Providing updates on relevant and contemporary issues related to health research, as well
 as relevant contemporary literature to the committee

Member Secretary/Co-ordinator

- Organize the committee meetings regularly and ensure that they are conducted in an orderly and efficient manner.
- To prepare, in conjunction with the president, the agenda for the committee meetings.
- To ensure that all members are kept informed of dates, times and venues for meetings.
- To report all important correspondence received by the committee to the meeting.
- Arrangement of training for staff members along with the chair and co-chairs.
- Organizing an effective and efficient tracking procedure for each proposal received.
- Allocation of proposal (in consultation with the chairperson) for reviews to specific members to facilitate efficient dispensation of the projects.

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Members:

- Work along with the secretary in all aspects
- Take minutes of meetings and provide it to the committee chair within ten working days of each meeting, for distribution to the entire committee within twenty working days.
- To maintain a register of all member attendance at meetings
- For online meetings, take a record of all those in attendance
- Maintain and report accounts to all the members regularly
- Receive and check for the completeness of the proposals sent for review
- Preparation, maintenance and distribution of proposals for review
- Collection and compilation of proposals after review
- Uploading proposals to relevant websites when required
- Prepare an "action item" calendar for the meetings which will consist of all of the deadlines for abstract submissions and research grants, and the evaluation and notification dates associated with them
- Take the lead in organizing scientific programs after consultation with the chairperson and
- Providing updates on relevant and contemporary issues related to health research, as well as relevant contemporary literature to the committee.

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Dayananda Sagar College of Dental Sciences, Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru

DSCDS/Internal/2023/035

Date: 01/06/2023

OFFICE ORDER COMMITTEE FOR ADVANCED RESEARCH STUDIES

Committee for Advanced Research Studies has been reconstituted to implement setting up of Centers for Learning and Excellence and to promote research culture among faculty and students at Dayananda Sagar College of Dental Sciences. The committee shall also look into Research Funding Avenues for Faculty and Student Research and shall also monitor Faculty and Student Publication and Publications. Tenure of committee will be of three years.

The committee members are as follows:

Sl. No.	Name	Designation	Position	
1	Dr. Hemanth M	Principal	Chairperson	
2	Dr. Avinash J	Vice Principal, Prof & HOD – Public Health Dentistry	Member	
3	Dr. Savita AM	Associate Dean – UG, Prof & HOD – Periodontics	Co -chairperson	
4	Dr. Shobha ES	Prof & Head – Implantology	Member	
5	Dr. Krishnanand PS	Associate Dean – UG, Prof & HOD – Oral Pathology	Member	
6	Dr. Prashanth NT	Prof & Head - Oral Surgery	Member	
7	Dr. Dharam M Hinduja	Professor - Conservative Dentistry & Endodontics	Member Secretary	
8	Dr. Pundarikaksha HP	Professor – Pharmacology	Member	
9	Dr. Gargi S Murthy	Reader - Pedodontics	Member	
10	Dr. Mahesh DR	Reader – Oral Medicine & Radiology	Member	
11	Dr. Sreeharsha TV	Reader - Prosthodontics	Member	
12	Dr. Afshan Saman Waremani	Senior Lecturer - Orthodontics	Member	
13	Dr. Koduru Sravani	Senior Lecturer - Periodontics	Member	
14	Dr. Ambili C	Senior Lecturer – Conservative Dentistry	Member	
15	Dr. Prajwal P	Senior Lecturer - Orthodontics	Member	
16	Mrs. Lakshmi K	Lecturer - Microbiology	Member	

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<u>Dayananda Sagar College of Dental Sciences,</u> <u>Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru</u>

DSCDS/Internal/2023/91

Date: 01/12/2023

OFFICE ORDER COMMITTEE FOR ADVANCED RESEARCH STUDIES

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3	Dr. Savita AM	Associate Dean – UG, Prof & HOD – Periodontics	Co -chairperson		
4	Dr. Shobha ES	Prof & Head – Implantology	Member		
5	Dr. Krishnanand PS	Associate Dean – UG, Prof & HOD – Oral Pathology	Member		
6	Dr. Prashanth NT	Prof & Head - Oral Surgery	Member		
7	Dr. Dharam M Hinduja	Professor - Conservative Dentistry & Endodontics	Member Secretar		
8	Dr. Pundarikaksha HP	Professor – Pharmacology	Member		
9	Dr. Gangaboraiah	Professor Emeritus	Member		
10	Dr. Mahesh DR	Reader – Oral Medicine & Radiology	Member		
11	Dr. Sreeharsha TV	Reader - Prosthodontics	Member		
12	Dr. Afshan Saman Waremani	Senior Lecturer - Orthodontics	Member		
13	Dr. Koduru Sravani	Senior Lecturer - Periodontics	Member		
14	Dr. Ambili C	Senior Lecturer – Conservative Dentistry	Member		
15	Dr. Prajwal P	Senior Lecturer - Orthodontics	Member		
16	Dr. Deepthi M	Senior Lecturer – Conservative Dentistry	Member		
17	Mrs. Lakshmi K	Lecturer - Microbiology	Member		

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DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES

(Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka) (Recognised by Dental Council of India, New Delhi)



MEMORANDUM OF UNDERSTANDING (MoU)

of Usage of Incubation Centre

BETWEEN

DERBI FOUNDATION, BENGALURU

AND

DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU

Dr. LAKSHMI JAGANNATHAN

CEO

DERBI Foundation, Bengaluru

Prof. Dr. Hemanth M MDS, Ph.D

Principal

Dayananda Sagar College of Dental Sciences, Bangalore

As on 18/10/2021

Dayananda Sagar Comege of Dental Sciences Kumaraswamy Layout,

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Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore - 560111. Phone: +91 80 26663654, 26662226 Fax: 26660789 Mobile: 74836 93035

E-mail :principal@dscds.edu.in Website : www.dscds.edu.in

Introduction and Background:

DERBI Foundation is not for profit section 8 company, a healthtech focused technology business hosted by the Dayananda Sagar Institutions and is recognized and supported by Department of Science & technology, Ministry of Electronics & IT and Invest India from Government of India and Karnataka Innovation Society, Government of Karnataka. It supports healthcare startups across their business cycle, viz, from idea to commercialization through mentoring, go- to market strategies, pilot trials, prototyping support and grants and seed fund.

The Dayananda Sagar College of Dental Sciences is a part of the Dayananda Sagar Institutions located at Campus - 1, Kumaraswamy Layout Bangalore was begun in 1991 as an Institution that caters to all the Oral Health Care needs of patients and provides training to Under Graduate, Post-Graduate and Ph. D students and functions under the Legis of the prestigious Rajiv Gandhi University of Health Sciences, Bangalore, Karnataka. There are 9 sub-specialties of Dentistry out of which Post Graduation is being held at 7 specialties.

Now, in accordance to the mutual desire to promote and develop activities between two Institutions, namely DERBI Foundation and the Dayananda Sagar College of Dental Sciences and Hospital, we agree to the following statement of intent on technology and Research based educational training programme for the faculty and students in using the incubation Centre. This cooperation in specific areas may be designed by mutual consent and incorporated into specific additional agreements upon signature by the appropriate authorities of both the institutions.

- 1. The two said institutions agree to the following general areas of interest and cooperation:
 - Sharing technical infrastructure with regard to using the Incubation centre and R & D facilities at DERBI Foundation, Bengaluru.
 - Sharing of Intellectual expertise for skill oriented training of Faculty, under Graduate and postgraduate Students

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- c. Sharing of knowledge and promotion of skill based training in the field of Research and Development for the benefit of Post Graduate Students as well as per the existing University requirements.
- d. Joint promotion of each other's' expertise and capabilities
- Supporting innovators and startups in idea validation, pilot testing and clinical trials
- The institution using the facility for training students at the Incubation Centre agree to pay the financial agreements necessary to implement this MoU or any subsequent agreement must be negotiated according to the regulation of the institution providing the facility.

3. Both the Institutions recognize that:

- a. This MoU establishes a foundation of mutual understanding and interest and does not itself entail any financial obligations for either institutions.
- b. This MoU will take effect from the date of its signing and shall be valid immediately.

This MoU is being signed on 18/10/2021 and will stand effective from this date onwards.

Dr. Lakshmi Jagannathan

CEO

DERBI Foundation,

Bengaluru

Prof. Dr. Hemanth M MDS, Ph.D

Principal

Dayananda Sagar College of Dental

Sciences, Bengaluru

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DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES

(Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka) (Recognized by Dental Council of India, New Delhi)

Accredited A+ Grade by NAAC DSCDS/ARSC/IMF(Faculty)/2023-24/

Details of Faculty Patents

Sr No	Name of	Title of the	Categor	Patent	Date of	Date of	Date of
	the Faculty	Patent	У	Number	Applicatio	Publicatio	Patent
			Utility/ Design		n	n	Grant
1	Dr Dharam Hinduja	Automated Tooth Shade Matching system Using Artificial Intelligence	Design	418646- 001	31/05/202		04/07/202
2	Dr Dharam Hinduja	An Endodontic Equipment With Adaptive Control	Design	421488- 001	27/06/202		19/07/202

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3	Dr Dharam Hinduja	Automated Dental Radiograph Analysis System for Early Detection of Caries and Periodontal Disease	Design	418648-	31/05/202		18/07/202
4	Dr Dharam Hinduja	System and Method to detect the size of unerupted canines using unsupervised Machine Learning Technique	Utility	20234108 295 A	5/12/23	5/1/24	Yet to be
5	Dr Dharam Hinduja	System and Method to detect periapical granuloma using convolutiona I neural networks	Utility	20244104 2228 A	31/05/24	07/06/202	Yet to be

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6	Dr Shobha E.S	A NEW CLASSIFICATI ON FOR TEMPEROM ANDIBULAR DISORDERS BASED ON ALGOMETER READINGS	INDIAN UTILITY PATENT	20244105	07/07/202	12/07/202	Yet to be
7	Dr Shobha E.S	PINNACLE POSITIONER (PPA): A CLINICAL ADVANCED INNOVATION	-	20234101 4335	03/03/202	-	-
8	Dr Vinod Rangan	A NEW CLASSIFICATI ON FOR TEMPEROM ANDIBULAR DISORDERS BASED ON ALGOMETER READINGS	INDIAN UTILITY PATENT	20244105	07/07/202	12/07/202	Yet to be
9	Dr.Pradee p	NOVEL MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORC E	Design	20234103 5353A	22/05/202	01/09/232	
10	Dr.Pradee	L ATTACHMET	DESIGN	419760- 001	12/06/24	- H	30/07/24

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		S FOR OVERDENTU RES TO INCREASE RETENTION ANS					
11	Dr.Savita A M	A METHOD FOR TREATING PERIODONTI TIS USING HERBAL TOPICAL GEL	Utility	02441063 500 A	22-08- 2024	30-08- 2024	Awaiting
12	Dr Hemanth M	Microimplan t Positioning guide	Indian utility Patent	20234101 4334	03/03/202		Yet to be
13	Dr Hemanth M	Pinnacle Positioner(P PA):A Clinical Advanced Innovation	Indian Utility Patent	20234101 4335	03/03/202		Yet to be
14	Dr Aravind M	MicroImplan t Positioning guide	Indian utility Patent	20234101 4334	03/03/202		Yetto be
15	Dr Aravind M	Pinnacle Positioner(P PA):A Clinical Advanced Innovation	Indian Utility Patent	20234101 4335	03/03/202		Yet to be
16	Dr Afshan Saman Waremani	Microimplan t Positioning guide	Indian utility Patent	20234101 4334	03/03/202		Yet to be
17	Dr Afshan Saman Waremani	Pinnacle Positioner(P PA):A Clinical Advanced Innovation	Indian Utility Patent	20234101 4335	03/03/202		Yetto be
18	Dr Prajwal Prabhu	Microimplan t Positioning guide	Indian utility Patent	20234101 4334	03/03/202	*	Yet to be

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19	Dr Prajwal Prabhu	Pinnacle Positioner(P PA):A Clinical Advanced Innovation	Indian Utility Patent	20234101 4335	03/03/202		Yet to be
20	Dr Smitha Sharan	Artificial intelligence based device for detection of oral cancer	Design	412578- 001	05-03- 2024	04-042024	05-06- 2024
21	Dr Prashanth NT	A NEW CLASSIFICATI ON FOR TEMPOROM ANDIBULAR DISORDERS BASED ON ALGOMETER READINGS	INDIAN UTILITY PATENT	20244105 1920	07/07/202	12/07/202	Yet to be
22	DR PRASHANT H N T	MICROIMPL ANT POSITIONIN G GUIDE	-	20234101 4334	03/03/202	-	
23	Dr Krishnana nd	Pinnacle Positioner (PP): A Clinical Advanced Innovation	Indian Utility Patent	20234101 4335	03/03/202	-	Yet to be
24	Dr.Sarand ha	NOVEL MINIATURE DIGITAL GAUGE FOR	Design	20234103 5353A	22/05/202	01/09/232	

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		ANALYSING DENTOFORC E					đ.
25	Dr.Smitha	NOVEL MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORC E	Design	20234103 5353A	22/05/202	01/09/232	
26	Dr Sreeharsh a	NOVEL MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORC E	Design	20234103 5353A	22/05/202	01/09/232	
27	Dr Brunda	NOVEL MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORC E	Design	20234103 5353A	22/05/202	01/09/232	
28	Dr.Sarand ha	L ATTACHMET S FOR OVERDENTU RES TO INCREASE RETENTION ANS STABILITY		419760- 001	12/06/24		30/07/24
29	Dr.Smitha	L ATTACHMET S FOR OVERDENTU RES TO INCREASE	R	419760- 001	12/06/24		30/07/24

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30	Dr.Shreeh arsha	L ATTACHMET S FOR OVERDENTU RES TO INCREASE RETENTION ANS STABILITY	DESIGN	419760- 001	12/06/24		30/07/24
31	Dr.Brunda	L ATTACHMET S FOR OVERDENTU RES TO INCREASE RETENTION ANS STABILITY	DESIGN	419760- 001	12/06/24		30/07/24
32	Dr.Harshit ha	L ATTACHMET S FOR OVERDENTU RES TO INCREASE RETENTION ANS STABILITY	DESIGN	419760- 001	12/06/24	-	30/07/24

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SCIENCES

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(Recognized by Dental Council of India, New Delhi)

Accredited A+ Grade by NAAC

DSCDS/ARSC/IMF(Faculty)/2023-24/

Details of Faculty PATENTS and INNOVATIONS











पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No.

418648-001

तारीख / Date

31/05/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो AUTOMATED DENTAL RADIOGRAPH ANALYSIS SYSTEM FOR EARLY DETECTION OF CARIES AND PERIODONTAL DISEASE से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Anagha Shete 2. Dr. Puneet Ahuja 3.Dr. Khushboo Rastogi 4.Dr. Harpreet Singh Chhabra 5.Dr. G. M. Sogi 6.Dr. Bennete Aloysius Fernandes 7.Dr. Abhishek Singh 8.Dr. Shilpi 9.Dr. Dharam M. Hinduja 10.Rakesh Kumar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to AUTOMATED DENTAL RADIOGRAPH ANALYSIS SYSTEM FOR EARLY DETECTION OF CARIES AND PERIODONTAL DISEASE in the name of 1.Dr. Anagha Shete 2. Dr. Puneet Ahuja 3.Dr. Khushboo Rastogi 4.Dr. Harpreet Singh Chhabra 5.Dr. G. M. Sogi 6.Dr. Bennete Aloysius Fernandes 7.Dr. Abhishek Singh 8.Dr. Shilpi 9.Dr. Dharam M. Hinduja 10.Rakesh Kumar.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्ययीन प्रावधानों के अनुसरण में। In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.



न्ती गाँडव

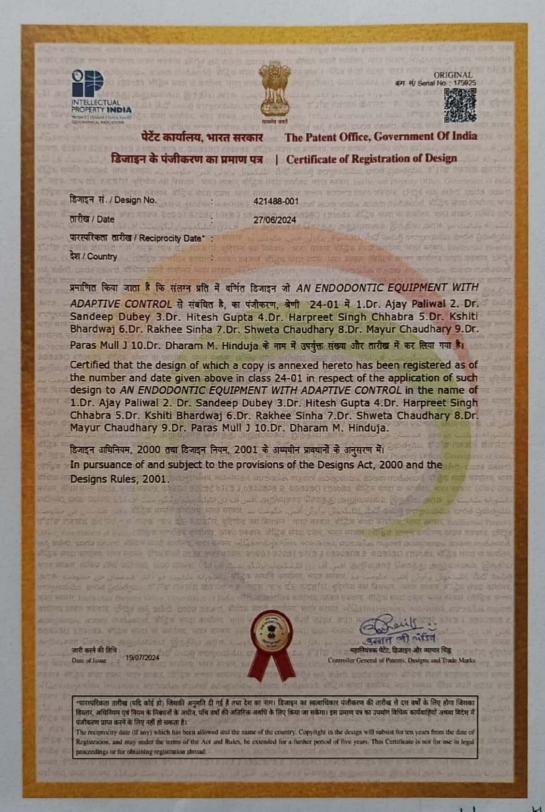
रिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का सदलाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिस अधिनियम एवं नियम के निबंधनों के अधीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों जचवा विदेश एव प्राप्त करने के लिए नहीं हो सकता है।

reciprocity data (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date distration, and may under the terms of the Acr and Rules, be extended for a further period of five years. This Certificate is not for use in legendings or for obtaining registration abroad.

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डिजाइन सं. / Design No.

418646-001

तारीख / Date

31/05/2024

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो AUTOMATED TOOTH SHADE MATCHING SYSTEM USING ARTIFICIAL INTELLIGENCE से संबंधित है, का पंजीकरण, बेणी 24-01 में 1.Dr. N. Senthil Nathan 2. Dr. Swati Chhabra 3.Dr. Paras Mull J 4.Dr. Ankita Sharma 5.Dr. Siddharth Nautiyal 6.Dr. Rajinder Kumar Bansal 7.Dr. Shankar 8.Dr. Shivani Vinayakrao Chavan 9.Dr. Manu Bansal 10.Dr. Dharam M. Hinduja के नाम में उपर्युक्त संख्या

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to AUTOMATED TOOTH SHADE MATCHING SYSTEM USING ARTIFICIAL INTELLIGENCE in the name of 1.Dr. N. Senthil Nathan 2. Dr. Swati Chhabra 3.Dr. Paras Mull J 4.Dr. Ankita Sharma 5.Dr. Siddharth Nautiyal 6.Dr. Rajinder Kumar Bansal 7.Dr. Shankar 8.Dr. Shivani Vinayakrao Chavan 9.Dr. Manu Bansal 10.Dr. Dharam M. Hinduja.

डिजाइन अधिनियम, 2000 तया डिजाइन नियम, 2001 के अध्ययीन प्रावधानों के अनुसरण में। In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.



रिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वत्वाधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका अधिनियम पूर्व नियम के निबंधनों के जयीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्यवाहियों जचवा विदेश में ज प्राप्त करने के लिए नहीं हो सकता है।

procury date (if any) which has been allowed and the name of the country. Copyright in the design will subsist for ten years from the date of don, and may under the terms of the Act and Rules, be extended for a further period of five years. This Certificate is not for use in lega-ings or for obtaining registration abroad.

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Design Application Details

Application Number:

421488-001

Cbr Number:

211276

Cbr Date:

27/06/2024 18:19:00

Applicant Name:

1. Dr. Ajay Paliwal

2. Dr. Sandeep Dubey

3. Dr. Hitesh Gupta

4. Dr. Harpreet Singh Chhabra

5. Dr. Kshiti Bhardwaj

6. Dr. Rakhee Sinha

7. Dr. Shweta Chaudhary

8. Dr. Mayur Chaudhary

9. Dr. Paras Mull J

10. Dr. Dharam M. Hinduja

Design Application Status

Application Status:

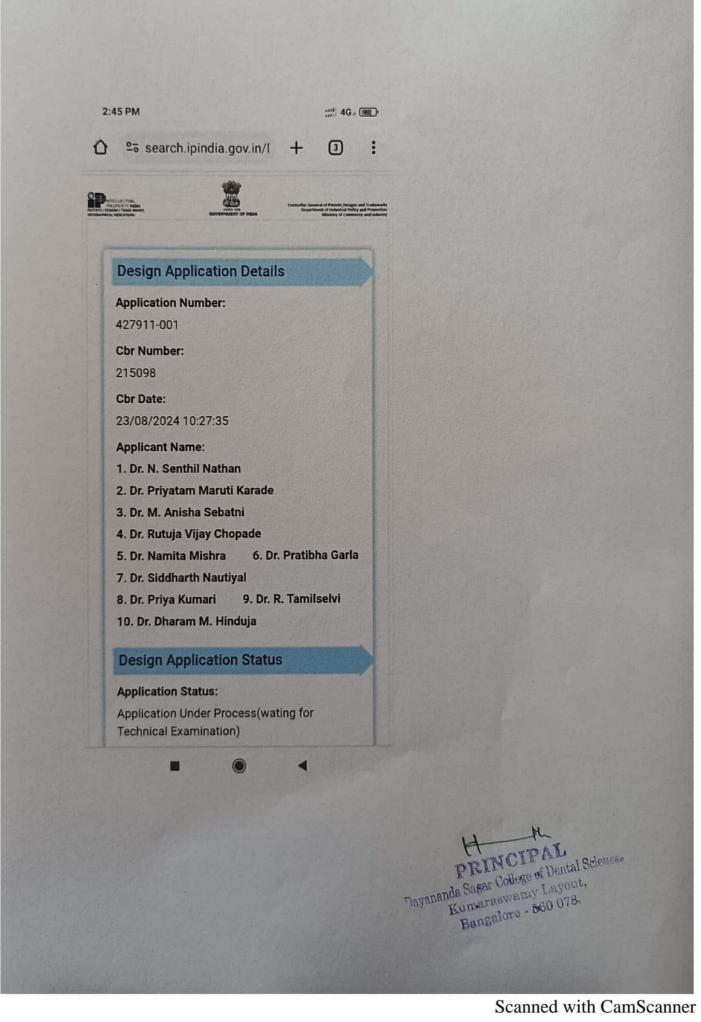
Application Under Process(wating for Technical Examination)

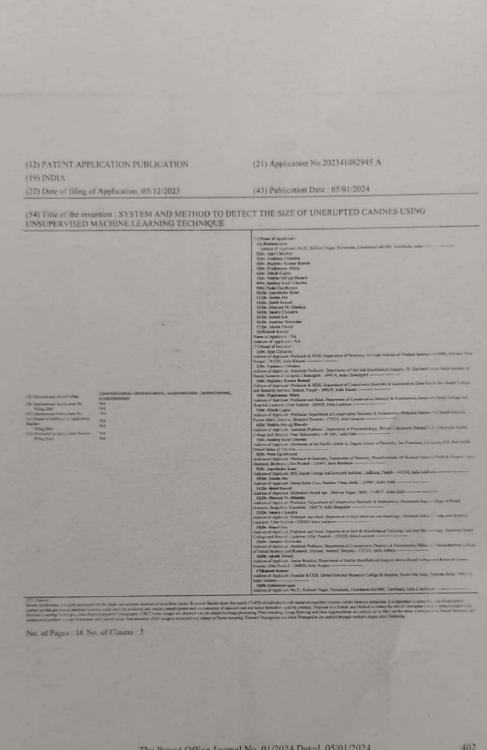
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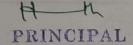
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Bangalore - 560 078.

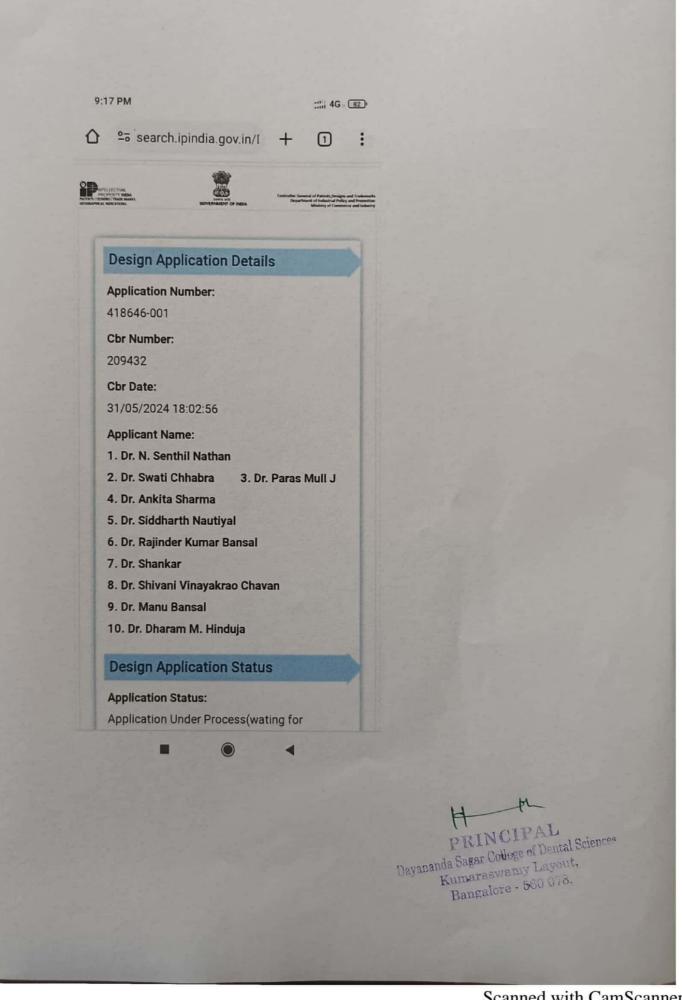


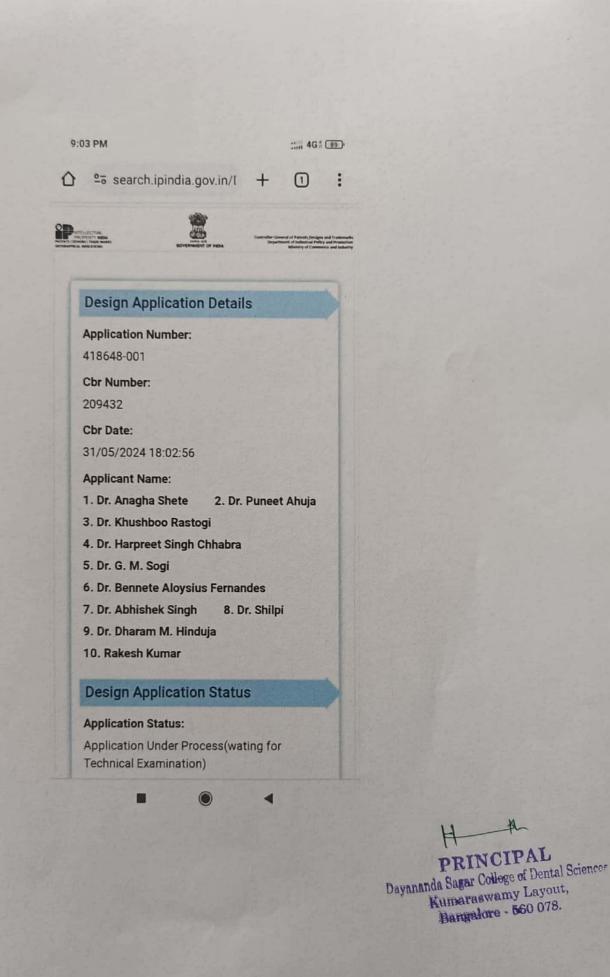


The Patent Office Journal No. 01/2024 Dated 05/01/2024



Dayananda Sagar College of Dental Sciences Kumaraswamy Layout, Bangalore - 560 078.







Office of the Controller General of Patents, Designs & Trade Marks Department for Promotion of Industry and Internal Trade Ministry of Commerce & Industry, Government of India

Application Details					
APPLICATION NUMBER	202441051920				
APPLICATION TYPE	ORDINARY APPLICATION				
DATE OF FILING	07/07/2024				
APPLICANT NAME	1 . Dr. Samiksha Gour 2 . Prof. Dr. Prashanth N.T 3 . Prof. Dr. Shobha E.S. 4 . Dr. Vinod Rangan 5 . Dr. Neha V Nainoor 6 . Dr. J. Shirisha 7 . Dr. Anusha B L				
TITLE OF INVENTION	A NEW CLASSIFICATION FOR TEMPOROMANDIBULAR DISORDERS BASED ON ALGOMETER READINGS				
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING				
E-MAIL (As Per Record)	subramaniannagu@gmail.com				
ADDITIONAL-EMAIL (As Per Record)					
E-MAIL (UPDATED Online)					
PRIORITY DATE					
REQUEST FOR EXAMINATION DATE					
PUBLICATION DATE (U/S 11A)	12/07/2024				
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FORM 2

THE PATENTS ACT, 1970 [39 of 1970]

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THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

[See section 10 and rule 13]

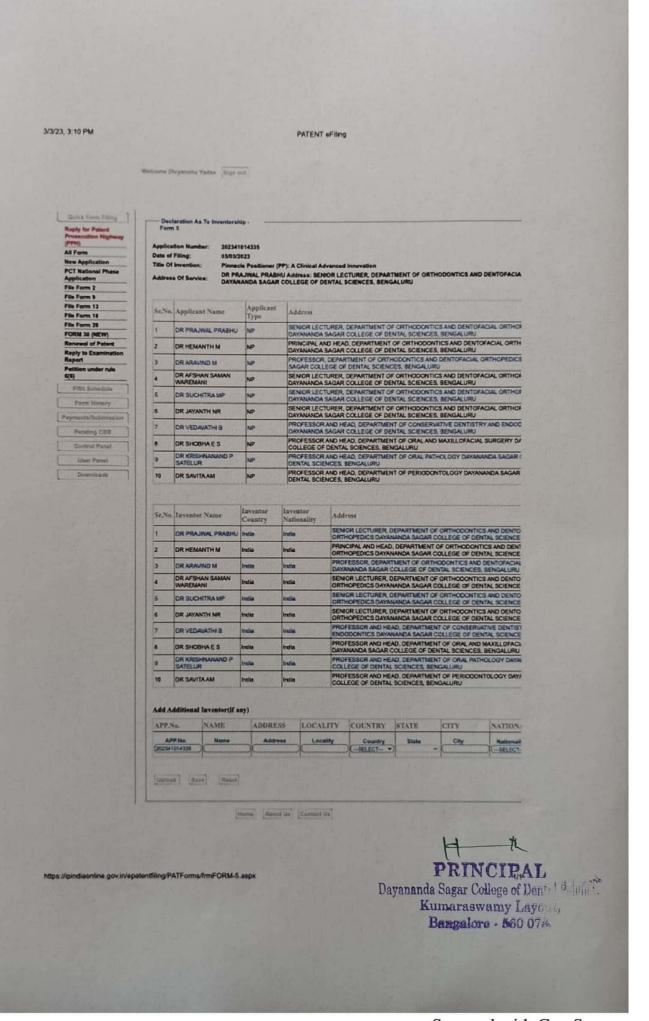
"A NEW CLASSIFICATION FOR TEMPOROMANDIBULAR DISORDERS BASED ON ALGOMETER READINGS"

Name of the Applicant(s)	Nationality	Address		
Dr. Samiksha Gour	Indian	III Year MDS Postgraduate, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India		
Prof. Dr. Prashanth N.T	Indian	Professor and Head, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India		
Prof. Dr. Shobha E.S.	Indian	Professor, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India		
Dr. Vinod Rangan	Indian	Reader, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India		
Dr. Neha V Nainoor	Indian	Consultant Oral and Maxillofacial Surgeon (Private Practice), #003, Shivashree Gardens-1 Apartments, 4th Cross, 1st Main Road, BEML 3rd Stage, Rajarajeshwari Nagar, Bangalore – 560098, Karnataka, India		
Dr. J. Shirisha	Indian	II Year MDS Postgraduate, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India		
Dr. Anusha B L	Indian	II Year MDS Postgraduate, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India		

PREAMBLE OF THE DESCRIPTION

The following specification particularly describes the invention and the manner in which it is to be performed.

1



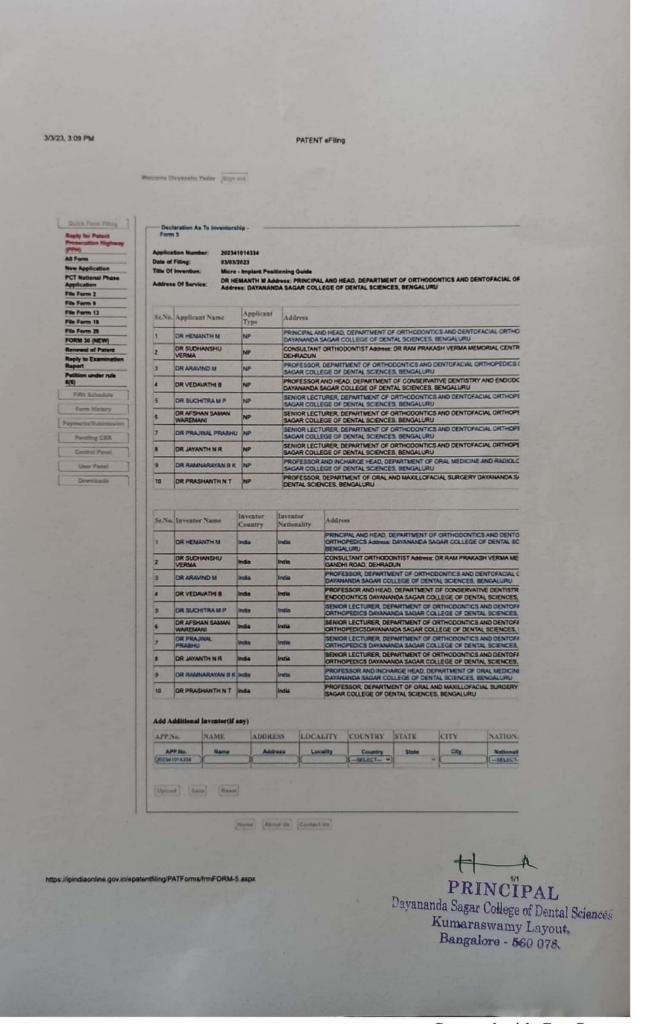
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Name in Full		Nationality	Country of Residence	Address of	the A	pplicant	
Dr. Samiksha	Gour	Indian	India	House No.		ear MDS Pos	
		TE A B	TO BE S	Street		artment of Or	
			Mary Street	City		illofacial Sur	
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Prof. Dr. Pras	booth N.T.	Indian	India	Pin code House No.	Delatition.		
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Dr. Neha V N	ainoor	Indian	India	House No.	M (Contraction)		and Maxillofacial
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			T. M	City	#00	3, Shivashree	Gardens-1

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FORM 2

THE PATENTS ACT, 1970 [39 of 1970]

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THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

[See section 10 and rule 13]

"A NEW CLASSIFICATION FOR TEMPOROMANDIBULAR DISORDERS BASED ON ALGOMETER READINGS"

Name of the Applicant(s)	Nationality	Address
Dr. Samiksha Gour	Indian	III Year MDS Postgraduate, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India
Prof. Dr. Prashanth N.T	Indian	Professor and Head, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India
Prof. Dr. Shobha E.S.	Indian	Professor, Department of Oral and Maxillofacial Surger y, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India
Dr. Vinod Rangan	Indian	Reader, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Kamataka, India
Dr. Neha V Nainoor	Indian	Consultant Oral and Maxillofacial Surgeon (Private Practice), #003, Shivashree Gardens-1 Apartments, 4th Cross, 1st Main Road, BEML 3rd Stage, Rajarajeshwari Nagar, Bangalore – 560098, Kamataka, India
Dr. J. Shirisha	Indian	II Year MDS Postgraduate, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India
Dr. Anusha B L	Indian	II Year MDS Postgraduate, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India

PREAMBLE OF THE DESCRIPTION

The following specification particularly describes the invention and the manner in which it is to be performed.

1

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Bangalore - 560 078.

पेटेंट कार्यालय शासकीय जर्नल

OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 28/2024 ISSUE NO. 28/2024 शुक्रवार FRIDAY दिनांकः 12/07/2024 DATE: 12/07/2024

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 28/2024 Dated 12/07/2024

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Dayananda Sagar College of Dental Sciences Kumaraswamy Layout, Bangalore - 560 078.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441051920 A

(22) Date of filing of Application :07/07/2024

(43) Publication Date: 12/07/2024

(54) Title of the invention: A NEW CLASSIFICATION FOR TEMPOROMANDIBULAR DISORDERS BASED ON ALGOMETER READINGS

A61B0005000000, G16H0010200000

(71)Name of Applicant:

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Address of Applicant: III Year MDS Postgraduate, Department of Oral and
Matillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore560078, Kamataka, India Bangalore—

560078, Karnataka, India Ban, 2)Prof. Dr. Prashanth N.T. 3)Prof. Dr. Shobha E.S. 4)Dr. Vinod Rangan 5)Dr. Neha V. Nainoor 6)Dr. J. Shirisha 7)Dr. Anusha B L. Name of Applicant: NA Address of Applicant: NA (72)Name of Inventor:

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2)Prof. Dr. Prashanth N.T

2)Prof. Dr. Prashanth N.T
Address of Applicant Professor and Head, Department of Oral and Maxillofacial
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India Bangalore - 4000 Charles College of Dental Sciences, Bangalore - 560078, Karnataka,
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JDr. Vinod Rangan

Address of Applicant : Reader, Department of Oral and Maxillofacial Surgery,
Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka,
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JDr. Neha V Nainoor

Address of Applicant : Consultant Oral and Maxillofacial Surgeon (Private
Practice) 3003, Shivashree Gardens-1 Apartments, 4th Cross, 1st Main Road,
BEML 3rd Stage, Rajarajeshwari Nagar, Bangalore - 560098, Karnataka, India
Rangalore - 560098, Karnataka, India

Filing Date (87) International Publication No (61) Patent of Addition to

Application Number Filing Date (62) Divisional to Application Number Filing Date

:NA

(57) Abstract:

Temporomandibular joint disorder (TMDs) pain intensity has mostly been a subjective study of pain experienced by the patients. There are studies evaluating pain perception in TMD patients but limited literature is present quantifying the pain perception. It has been proposed that TMD may be a part of generalized pain condition. There is a need for a study investigating the general pain perception in TMD patients order to understand the underlying mechanism of TMD. The readings determined by algometer gives valuable proposition to adjust the dosage of analgesizes before any treatment is initiated and also if any behavioural / psychosocial therapy needs to be provided. An algometer is used to measure the general pain pressure threshold (GPPT) at hypothenar region of healthy individuals and TMD patients three times. Mean T score was considered the GPPT of the subject. Upon analysis higher mean T score was recorders compared to TMD subjects and the difference between them was not statistically significant (P>0.001). The mean T score was higher in males compared to females but the difference between them was not statistically significant (P>0.05). Temporomandibular disorders (TMD) tend to exhibit a lower pain threshold compared to those without the condition. This paper adds in providing a framework for classification of TMD on the basis of readings of pain pressure threshold on algometer. The classification aims at categorizing the treatment modality for TMD based on the reading considering if any behavioural / psychosocial therapy needs to be provided.

No. of Pages: 10 No. of Claims: 5

The Patent Office Journal No. 28/2024 Dated 12/07/2024

61066

PRINCIPAL Dayananda Sagar College of Dental Sciences Kumaraswamy Layout, Bangalore - 560 078.



पेटेंट कार्यालय शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन

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Representation of Dental Sciences
Kumaraswamy Layout,
Bangalore - 560 078.



Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India

(http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

	Application Details
APPLICATION NUMBER	202341035353
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/05/2023
APPLICANT NAME	 Dr. Pradeep Chandra K Dr. Mir Shahid Ulla Dr. Sarandha D.L. Dr. Smitha Sharan Dr. Sreeharsha T.V. Dr. Brunda K Dr. C.M. Zameer Ahmed Dr. Shelvi Pandey Dr. Monika N Dr. Sujana S Dr. Syeda Noor Ayesha N Dr. Diksha
TITLE OF INVENTION	NOVEL-MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORCE
FIELD OF INVENTION	PHYSICS
E-MAIL (As Per Record)	vaagaiip@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (U/S 11A)	01/09/2023

PRINCIPAL

Vananda Sagar College of Dental Sciences

Kumaraswamy Layout,

Bangalore - 560 078.

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/05/2023

(21) Application No.202341035353 A

(43) Publication Date: 01/09/2023

(54) Title of the invention: NOVEL-MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORCE

:G01L0005000000, G01L0025000000, (51) International A61B0005000000, G01N0021470000, classification A01K0097120000 (86) International :PCT// Application No :01/01/1900 Filing Date (87) International Publication No (61) Patent of Addition :NA to Application Number :NA Filing Date (62) Divisional to Application Number Filing Date

(57) Abstract

NOVEL-MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORCE A method for this paper presents the design and development of a low cost and reliable maximal voluntary bite force measurement device which can be manufactured in-house by using an Arduino Nano and flexi force sensor with chief advantage of it being portable which can be delivered to the patient, store the readings in the SD card as well as OTA display of forces. The device has been designed for ease of fabrication, assembly, calibration, and safe use. The device is capable of use within an hour of commencing production, allowing for rapid prototyping/ modifications and practical implementation. The measured data shows a good linear relationship between the applied force and the electrical resistance of the sensor. The output signal has low drift, excellent repeatability, and a large measurable range of 0 to 800 N. A high signal-to-noise response to human bite forces was observed, indicating the high potential of the proposed sensor for human bite force measurement.

No. of Pages: 11 No. of Claims: 1

The Patent Office Journal No. 35/2023 Dated 01/09/2023

56397

Dayananda Sagar College of Dental Sciences

Kumaraswamy Layout,

Bangalore - 560 078.

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पेटेंट कार्यालय शासकीय जर्नल

OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 35/2024 ISSUE NO. 35/2024

शुक्रवार FRIDAY दिनांकः 30/08/2024 DATE: 30/08/2024

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 35/2024 Dated 30/08/2024

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PRINCIPAL

Avananda Sagar College of Dental Science
Kumaraswamy Layout,
Basesdore - \$60 078.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application -22/08/2024
(54) Title of the invention : A METHOD FOR TREATING PERIODONTITIS USING HERBAL TOPICAL GEL

(51) International classification
(51) International classification
(56) International Application No : NA
(58) International Application No : NA
(59) International Publication No : NA
(51) Patent of Addition to : NA
(51) Patent of Addition to : NA
(51) International Publication No : NA
(52) Divisional to Applicant: NA
(53) International Publication No : NA
(54) Patent of Addition to : NA
(55) International Publication No : NA
(56) Divisional to Applicant: NA
(57) Abstract in Addition to : NA
(58) Internation Number
(59) And Address of Applicant: Department of Periodontology, Dayananda Sagar College of Dental Sciences, Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore, Karnataka, India, 500111. Bangalore
(62) Divisional to Application
Number
(62) Divisional to Application
Number
(63) Address of Applicant: Department of Periodontology, Dayananda Sagar College of Dental Sciences, Shavige Malleshwara Hills, Kumaraswamy Layout, Bangalore, Karnataka, India, 560111. Bangalore
(57) Abstract:
Abstract The present invention discloses a method of treatment of periodontiits using a topical gel formulation of flax seed extract. The invention also discloses the composition and method of preparation of the topical gel formulation of flax seed extract. The invention also discloses the composition and method of preparation of the topical gel formulation of flax seed extract.

No. of Pages: 29 No. of Claims: 5

The Patent Office Journal No. 35/2024 Dated 30/08/2024

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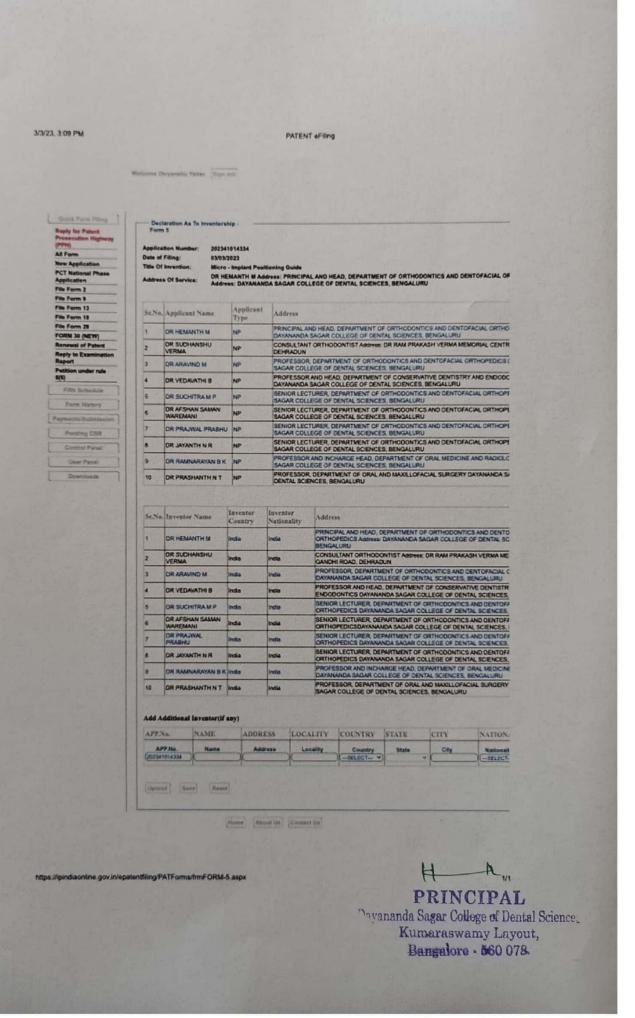
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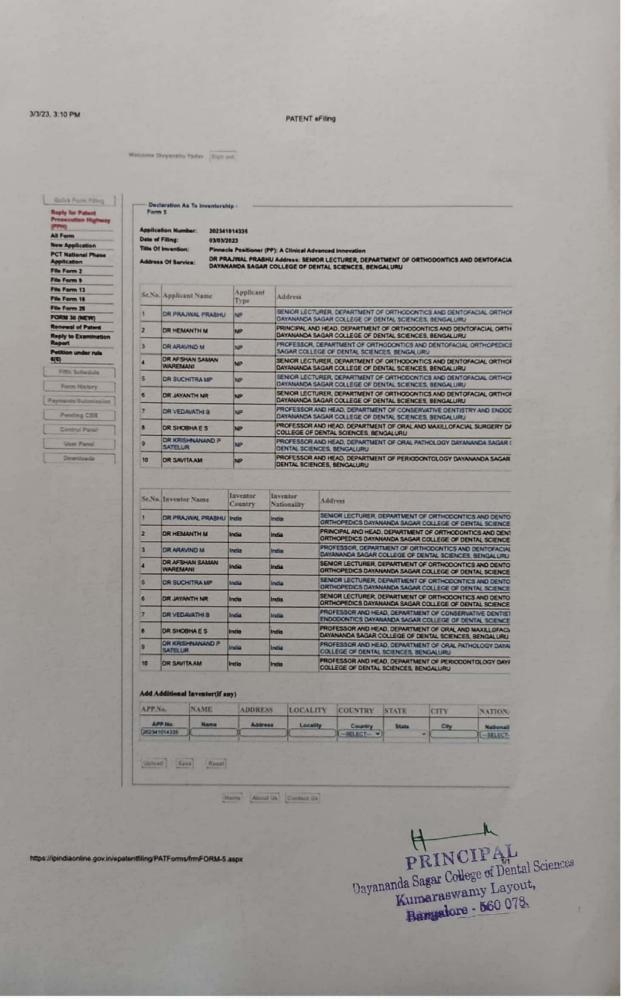
Payananda Sagar College of Dental Science.

Kumaraswamy Layout,

Bangalore - 560 078.

Hth





TITLE OF THE CLINICAL INNOVATION- 6 MASSI KASEE WAS RIVEOUS STRUSTLING MORE

NAME OF THE PRESENTER: DR. RADIKSANTALAMANDATY & DR. CHANDNI KESHRI



Indian Orthodontic Society

PRESIDENT Dr. JAYESH S RAHALKAR HON SECRETARY Dr. SANJAY LABH

Table Clinic

Reg No	Prize	Category	Name	College	Topic
752	1	Innovation C TAB I 010	Dr. Meghnaa S (SLM12491)	Krishnadevaraya College of Dental	Effortless Orthodontics
0980		1 5 5 3 3	Dr. Sreejit Saha (SLM12662)	sciences	(Redefining Bonding Techniques)
868	п	Innovation	Dr. Adil Mohamed Ashraf (SLM14417)	Yenepoya Dental College	Nasoal veolar Molding an Artificial Intelligence
944		C TAB I011	Dr.Niha.M (SLM14461)		
1523	Ш	Innovation C TAB I 018	Dr.Radhika Agarwal (SLM12556)	Rajasthan dental college	Revolutionizing orthodoni care and Future paradigm
1528		C Trus Tong	Dr.Pulkit Sharma (SLM13312)	and hospital	tut mat must paraugu

- 5000 1000 1000	No		A STATE OF			
	1996 1992		Innovation (C TAB I 031)	Dr. Adnan A Mandaty (SLM12733) Dr. Chandni Keshri (SLM12728)	Dayananda Sagar College of Dental Sciences	Swiss Knife In Orthodontics
PRINCIPA Payananda Sagar College of D Kumaraswamy La	1749 11966 ental S	i II	Innovation C TAB 1 045	Dr.Santhosh Ram Kumar M (SLM12231) Dr. M Harivadhani (SLM12059)	K.S.R.Institute of Dental Science and Research	Do Ityourself- Guided Miniscrews
Bangalore - 560	1412	III	Innovation (C TAB I 051)	Dr. Rajkumar.P (SLM14151) Dr. Sanjai J (SLM13655)	Sri Venkateswara Dental College and Hospital Chennai	Gearax (Gear Activated Rapid Expander)

TITLE OF THE CLINICAL INNOVATION- SWISS KNIFE IN ORTHODONTICS NAME OF THE PRESENTER: DR. ADNAN A MANDATY & DR. CHANDNI KESHRI



Indian Orthodontic Society

PRESIDENT Dr. JAYESH S RAHALKAR HON SECRETARY Dr. SANJAY LABH

Table Clinic

Reg No	Prize	Category	Name	College	Topic
752 0980	1	Innovation C TAB I 010	Dr. Meghnaa S (SLM12491) Dr. Sreejit Saha (SLM12662)	Krishnadevaraya College of Dental sciences	(Redefining Bonding Techniques)
944	П	Innovation C TAB 1011	Dr. Adil Mohamed Ashraf (SLM14417) Dr.Niha.M (SLM14461)	Yenepoya Dental College	Nasoal veolar Molding and Artificial Intelligence
1523 1528	Ш	Innovation C TAB I 018	Dr.Radhika Agarwal (SLM12556) Dr.Pulkit Sharma (SLM13312)	Rajasthan dental college and hospital	Revolutionizing orthodontic care and Future paradigm

Reg No	Prize	Category	Name	College	Topic
1996 1992	1	Innovation (C TAB I 031)	Dr. Adnan A Mandaty (SLM12733) Dr. Chandni Keshri (SLM12728)	Dayananda Sagar College of Dental Sciences	Swiss Knife In Orthodontics
1749 1966	11	Innovation C TAB 1 045	Dr.Santhosh Ram Kumar M (SLM12231) Dr. M Harivadhani (SLM12059)	K.S.R.Institute of Dental Science and Research	Do Ityourself- Guided Miniscrews
1339	111	Innovation (C TAB 1 051)	Dr. Rajkumar.P (SLM14151) Dr. Sanjai J (SLM13655)	Sri Venkateswara Dental College and Hospital Chennai	Gearax (Gear Activated Rapid Expander)

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Dayananda Sagar College of Dental Science

Kumaraswamy Layout,

Bangalore - 660 078.



DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES Shavige Malleshwara Hills, Kumaraswamy Layout Bangalore 560 076



DSCDS/Circular/2023/095

October 13, 2023

CIRCULAR

The Advanced Research Committee along with DERBY foundation is conducting sessions on Tuesday the October 17, 2023 at Dr. Premchandrasagar Auditorium from 2.00 pm to 4.00 pm. All Postgraduate students of 2022-23 and 2021-22 batch, Interns, 3rd & 4th BDS Students and faculty members are instructed to attend the program. Participants shall be on time for the program. Heads of the Departments are requested to permit the students to attend the same.

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Dayananda Sagar College of Dental Science-Kumaraswamy Layout, Bangalore - 560 078.

Cc to:

- 1. Vice Principal
- 2. Associate Dean PG, Administration
- 3. I MDS Students 2022-23, 2021-22 whatsapp group
- 4. Intens whatsapp group regular and odd batch
- 5. 3rd & 4th Year whatsapp group regular and odd batch
- 6. Teaching faculty whatsapp group
- 7. AAC
- 8. IQAC
- 9. ERP

10. Office Copy

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Circular 2023 onwards.doc



DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES

(Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka) (Recognized by Dental Council of India, New Delhi)

Accredited A+ Grade by NAAC DSCDS/ARSC/IMF(Faculty)/2023-24/





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Dayananda Sagar College of Dental Sciences Kumaraswamy Layout, Bangalore - 560 078.



DAYANANDA SAGAR COLLEGE OF ENGINEERING

(An Autonomous Institute Affiliated to VTU, Belagavi)
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560078



INNOVATION & ENTREPRENEURSHIP DEVELOPMENT CENTER

Date: 17-10-2023

Name of the Event:- 2nd C-CAMP, Interinstitutional, Biomedical Innovation Program.

Time: - 02:00PM - 04:00 PM

Venue: P C Sagar, Auditorium, DSCE.

Attendance sheet

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Dayananda Sagar College of Dental Sciences

Kumaraswamy Layout,

Bangalere - 560 078.

SI. No	Name of the student	USN	Branch	Signature
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51	Dr. Deepah. HJ	23 PGD 30005	lested	deeped	
52	Dr. Shirisha A.P	23PGD30013	Deuter	- 81	
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54	Dr Thurtha Saridhanan		Dental	Thulta.	
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57	Dr. Priyanka H. Hadiman	22 ED023	Dental	Prizante	
58	Dr. K. Ragel	22/20024	Dental	K.P.	
59	Dr. Nischitha	88 ED 632	Dental	Achilla	
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SI. No	Name of the student	USN	Branch	Signature
73	Anagha MD	2020971	Dental	July -
74	Vipul. M. Naik	2010930	Dental *	Make
75	Kawhik.	2000913	Dental	#
76	D. Sai Sreeja	1900070	Dental	Dope
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M2M Plan for Global BioIndia Roadshow

Organized by DERBI BioNEST, Bangalore

Date: 09-Aug-2024

Venue: CD Sagar Auditorium, DSCE, Bangalore

02:00 - 02:10 PM: Welcome Note

02:10 - 02:25 PM: Launch of Global India BIO: BIRAC Official

02:25 - 02:30 PM: Launch of New DERBI Website

02:30 - 03:20 PM: Panel Discussion: "Concept to Cure - Navigating through Proof of Concept to Market Success in Healthcare Innovation"

Panelists

Mrs. Savitha Ananth, Lead Healthcare, Villgro Innovation Foundation

Dr Balasubramanya, General Manager, ABLE India

Dr Amrut S Kadam, State Nodal Office IT initiative Dept. of Medical Education, GOK

Vinayaka Nandalike, Founder & CEO, Yostra Innovation Labs

Moderator: Sathya, CEO - DERBI Foundation

03:25 - 04:10 PM: Fireside Chat: Healers & Hackers

Mr. Suryaprakash Konanuru, CTO, Ideaspring Capital

• Mr. Vijayrajan A, Founder & CTO, Innacel Technologies

04:10 - 04:20 PM: Launch of Observership Program for Startups

04:20 - 04:30 PM: Closing remarks & Vote of Thanks

04:30 - 05:00 PM: Networking & Hi-Tea

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Dayananda Sagar College of Dental Sciences

Kumaraswamy Layout,

Bangalere - 560 078.









GLOBAL BIOINDIA 2024 ROADSHOW

Panel discussion: Concept to Cure

Navigating from Proof of Concept to Market Success in Healthcare Innovation

Panelists:



SAVITHA

Lead, Healthcare Villgro Innovations



DR. BALA SUBRAMANYA

General Manager ABLE



DR. AMRUT S KADAM

Nodal Officer-IT Initiatives, Dept of Education, GoK



VINAYAK NANDALIKE

Founder & CEO, Yostra Labs

Fireside Chat: The Healers & Hackers



SURYAPRAKASH KONANURU

CTO Ideaspring Capital



VIJAYRAJAN A

Founder Innacel Technologies

2.00 PM ONWARDS

9 AUGUST' 24

CD SAGAR AUDITORIUM

BUILDING NO. 10, DEPARTMENT OF BIOLOGICAL SCIENCES, SHAVIGE MALLESHWARA HILLS, KUMARASWAMY LAYOUT, BENGALURU 560078.