

**JSS Academy of Higher Education & Research**  
(Deemed to be University) (Accredited A+ Grade by NAAC)

## COMPENDIUM ON SDG-9

### Industry, Innovation and Infrastructure

Compendium of Activities in Achieving UN Sustainable  
Development Goals



**2021-22**

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## ABOUT THE SDG 9



The goal is to build resilient infrastructure, promote sustainable industrialization and foster innovation. Inclusive and sustainable industrialization, together with innovation and infrastructure, can unleash dynamic and competitive economic forces that generate employment and income.

Technological progress is also key to finding lasting solutions to both economic and environmental challenges, such as providing new jobs and promoting energy efficiency. Promoting sustainable industries, and investing in scientific research and innovation, are all important ways to facilitate sustainable development.

It can be promoted by investing in new, resilient infrastructure in developing countries or retrofit existing infrastructure to make it more sustainable. Expand the geographic reach of research and development facilities, bringing R&D capabilities to developing countries.

A functioning and resilient infrastructure is the foundation of every successful community. To meet future challenges, our industries and infrastructure must be upgraded. For this, we need to promote innovative sustainable technologies and ensure equal and universal access to information and financial markets. This will bring prosperity, create jobs and make sure that we build stable and prosperous societies across the globe.

## RESEARCH FACILITIES AND INFRASTRUCTURE AT JSSAHER SUPPORTING SDG 9

We have ensured that Students get many of the Campus Facilities required by them for making their stay memorable and productive.

- The Campus has Internet browsing facilities at Digital Libraries, Meeting Rooms, Reception areas of the Hostels and other suitable locations to enable access the digitized Curricula.
- The Campus has a Bank Branch and an ATM to help in financial transactions needed.
- Canteens & Restaurants are located ideally to help students and their parents.
- Each College in the Campus is well equipped with Laboratories required for the Practical's.
- Students and Faculty have been provided with exclusive Parking lots for their vehicles and cycles for transit within the campus
- The Campus has a 24 Hours Security Service , food court, parking space and yoga hall.
- The Campus has a well equipped gymnasium to cater to the needs of the Students and Staff



## **INFRASTRUCTURE FACILITY AT MEDICAL COLLEGE AND HOSPITAL AUTONOMIC FUNCTION TESTS LABORATORY**



Skill and Simulation center is fully accredited state of the art medical training facility that incorporates simulation-based education highlighting the commitment of the institution in providing cutting edge technology in the field of health care.



Facilities available are Skill / Task trainers - forty different types of adult and paediatric task trainers, Trainers to provide basic and advanced life support, Basic surgical skill trainers, Laparoscopic and Arthroscopy simulator, Endoscopy and bronchoscopy trainers, Ultrasound trainers, Advanced high-fidelity simulators – Simman 3G, SimMom, Neonatal, Infant and Child simulator, ICU, PICU and Operation theatre setup to simulate realism

**COMPUTER ASSISTED LEARNING (CAL) LAB, SMART CLASSROOM, DIGITAL LIBRARY**



**Infrastructure & learning resources Details**

**URL Link: <https://jssuni.edu.in/jssaher/dental-college/dch-library-and-information-center.html>**

# CENTRAL ANIMAL HOUSE





Museum of Anatomy department has a wide collection of specimen which includes dissected human parts, fetuses showing different stages of development & rare congenital anomaly specimen, embryology models & charts. The museum also has Plastinated specimens, where they can touch the organs & study. Each specimen is displayed with relevant description. The museum is open to the public and students at free of cost.



## RESEARCH LABS & ACTIVITIES AT JSSAHER

**RESEARCH ACTIVITIES THAT CAN BE CARRIED OUT USING THE FACILITIES AVAILABLE AT CEMR LAB** (Center of Excellence in Molecular Biology and Regenerative Medicine (CEMR)).

Drug design and discovery using molecular biology, Developing in-house diagnostic tools for the early detection of pathogens causing sepsis, Development of biomarkers for early diagnosis and detection of various diseases, Development of phytochemicals and nutraceuticals targeting specific pathway for the prevention and treatment of diseases could be done in the lab.

### Cytogenetics Laboratory

The Cytogenetics Laboratory in the Department of Medical Genetics at JSS Hospital is equipped with state-of-the-art equipment and facilities. It caters to the diagnostic needs of the patients in and around the Mysuru district. Karyotyping, Fluorescent In-situ Hybridization (FISH), FISH - BCR/ABL1, HER2/neu tissue FISH are the tests done. JSS Hospital is the first organization in this region to offer these genetic tests at an affordable price.

Drug design and discovery using molecular biology, Developing in-house diagnostic tools for the early detection of pathogens causing sepsis, Development of biomarkers for early diagnosis and detection of various diseases, Development of phytochemicals and nutraceuticals targeting specific pathway for the prevention and treatment of diseases could be done in the lab.

**Center for Clinical Research Excellence (CCRE)**, at JSS University was approved as a collegium of Clinical Development Services Agency (CDSA) - A DBT, Ministry of Science and Technology, Government of India initiative to facilitate the development of healthcare products for public health system in 2015 (<http://www.cdsaindia.in>).The department started its operations in clinical research training in 2016, and we are now fully set up and started with our clinical Trials related operations.



## NEW FACILITIES IN THE DEPARTMENT

SI No	Department	New facilities
1	Physiology	Autonomic function lab
2	Biochemistry	Facility to train the MSc Medical Genetics & Genomics students in handling Model organism like Drosophilla in the Clinical Biochemistry Laboratory.
3	Pathology	The department has deca-head microscope facility for teaching pg students  - Facility of decahead to view slides - 10 persons at a time. To facilitate interdepartmental case discussion.
4	Radio-Diagnosis	Specialty clinics started in Neuro-Imaging, Fetal Imaging, Guided procedures, etc
5	Ophthalmology	Orbit & Oculoplasty services  Vitreoretinal Surgical Service
6	Neurology	Video EEG  Portable EEG
7	Gastroenterology	Liver Transplantations Done on 17.12.2021
8	Microbiology	Antimicrobial stewardship activity started in the form of front end strategy
9	Dermatology	Cosmetology and Aesthetic Surgery clinic, 19th of April, 2022
10	JSS Hospital	Mobile ICU on wheels



## LC-MS-MS Instrument

As a part of MoU, it was a generous gift from Biocon Limited, Bangaluru to JSS College of Pharmacy, Mysuru and the instrument was installed in Pharmaceutics PG-I lab. The LC-MS/MS is a powerful tool used for the detection of residual chemical compounds, confirmatory identification of small organic molecules, and confirmation and quantitation of contaminants and adulterants in pharmaceutical and food samples. This instrument is utilized by research scholars and M.Pharm students for their research activities as well consultation projects.



## Chemistry laboratory

Construction work on the New Chemistry and cell culture labs, as part of the research infrastructure development and Redevelopment Plan is 60% complete and will be ready by November 2022.

Chemistry lab is well-designed lab that features lots of critical space for natural movement and flow. It is designed in such a way that person working has have quick access to safety features such as an eyewash station, an emergency shower, biosafety cabinets, and a fire detection and protection system



## Cell culture laboratory

All the basic requirements or facilities like Quarantine are, Washing area, Media preparation area, Aseptic transfer area, Culture/grow rooms and Data collection area considered for the construction of cell culture lab for efficient functioning and experimentation.



## Entrepreneurship Cell

JSS Academy of Higher Education & Research (JSS AHER) is establishing as Entrepreneurship cell at JSS College of Pharmacy, Mysuru dedicated to promote the spirit of entrepreneurship among students throughout India. The basic aim of E-Cell is to encourage college-level students today to start their own enterprise. The major activities of E-Cell such as Orientation and Motivation, Opportunity assessment, Kickstarting the Entrepreneurial campus, Business Planning workshops, Prototype to commercialization-drafts preparation, Market Analytics, Team Building and Managing funds/entrepreneurship finance.



The new infrastructure was established in the Department of Biotechnology and Bioinformatics.



Establishment of Polyhouse to grow plants under controlled condition

The establishment of Polyhouse to grow plants under controlled condition is established under the Govt. of Karnataka funded FIST programme.

## ACADEMIC PROGRAMS ON INNOVATION

### Programmes and activities organized aligning to this goal

At the educational level Division of Geoinformatics is providing students with the knowledge, skills, and motivation to understand and address the challenges of the SDGs; empowering and mobilizing young people; providing in-depth academic or practical training to implement SDG solutions; enhancing opportunities for capacity building of students and professionals from the society to address challenges relating to the SDGs.

We have celebrated the international webinar to celebrate world GIS day 2021. The theme of the webinar was aligned with the SDG goals, entitled “Spatial Thinking through GIS”.

**DIVISION OF GEOINFORMATICS**  
SCHOOL OF LIFE SCIENCES  
JSS ACADEMY OF HIGHER EDUCATION & RESEARCH  
(DEEMED TO BE UNIVERSITY), ACCREDITED 'A+' GRADE BY NAAC

**JSS** JSS ACADEMY OF HIGHER EDUCATION & RESEARCH  
(DEEMED TO BE UNIVERSITY) MYSURU

COMMEMORATING INTERNATIONAL  
**GIS day**

INTERNATIONAL  
**LIVE WEBINAR**  
**SPATIAL THINKING**  
*through* GIS



International webinar to celebrate world GIS day 2021

The webinar theme was aligned with the SDG goals like Quality Education, Clean Water & Sanitation, sustainable cities and communities, Climate Action, Life on the Land, Industry, and **Innovation & Infrastructure**.

We also encourage and promote the SDGs as a topic of research within the Division of Geoinformatics; supporting the full spectrum of research approaches needed to address the SDGs, including interdisciplinary and transdisciplinary research; supporting and incubating innovation for sustainable development solutions; actively supporting national and local implementation of the SDGs; advocating for national support and coordination of research on the SDGs.

The first keynote address was delivered by Ms. Roma Malik Presales Engineer, ESRI, India Bengaluru on the topic of GIS Applications on Environmental Sciences. She emphasized the importance of ArcGIS in the field of environmental sciences and the use of ArcGIS Dashboard in the same.

Dr. Shyju Krishnan, Manager Presales, ESRI, India Bengaluru on GIS a Career-Advances in GIS Technology. He highlighted the essential skills of GIS required to have a great career in the field of Geoinformatics. The Third keynote address was delivered by Mr. Rakesh Shete Project Manager, Edall Systems, Bengaluru on the topic of Drone and their Applications.

This webinar was conceived and convened by Dr. Sawant Sushant, Coordinator, Division of Geoinformatics, Division of Geoinformatics, JSS AHER.

### **Yuva Saptah Event at JSS AHER**

A special talk on Entrepreneurship for Youth as a part of **Yuva Saptah** was organized for the student volunteers of NSS Unit of JSS AHER Departments on 14<sup>th</sup> January 2022.

Sri Praveen Kumar S, CEO and Head-Education, SVYM was present as the Chief Guest of the event which was presided over by Prof. K.A. Raveesha, Dean, Faculty of Life Sciences & Natural Sciences, alongside Dr. K.L. Krishna, NSS Program Coordinator, JSS AHER, Dr. Raghu Ram Achar, NSS Programme Officer, Dr. Vadiraj. KT., Assistant Program Officer

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**National Service Scheme**  
as a part of **Yuva Saptah-2022**

**Special Talk on**  
**"Entrepreneurship for youth"**  
14 January 2022  
11am to 12pm

**Organized by**  
**NSS Unit of JSS AHER Departments**

**Mr. PRAVEEN KUMAR S**  
Chief Strategy Officer  
Head-Education  
Swami Vivekananda Youth Movement

2021 NAAC A+  
nirf 34<sup>th</sup> (University Category)  
ASIAN UNIVERSITY RANKINGS 261-270  
TIMES HIGHER EDUCATION 2022 351-400  
ARIIA 2021 "BAND EXCELLENT"

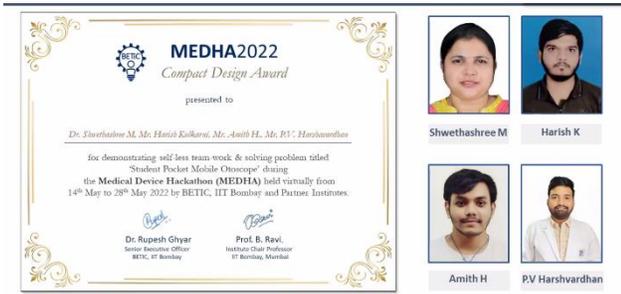
A special talk on Entrepreneurship for Youth as a part of Yuva Saptah was organized for the student volunteers of NSS Unit of JSS AHER Departments

*Right pane: Mr. Praveen Kumar S, CEO and Head Education, SVYM; Left pane: Dr. K.A. Raveesha, Dean, Faculty of Life Sciences and Natural Sciences, Dr. K.L Krishna, NSS Program Coordinator, Dr. Raghu Ram Achar, NSS Program Officer, Dr. Vadiraj. KT., Assistant Program Officer*

In his talk, Sri Praveen Kumar spoke on the avenues to take up entrepreneurship at the social front by solving real problems existing and called upon youth to do voluntary services to understand the ground realities of the society. The opening remarks were provided by Prof. KA. Raveesha, Closing remarks by Dr. KL Krishna. The event was moderated by Dr. Raghu Ram Achar. Vote of thanks was proposed by Dr. Vadiraj KT.

Dr.Shwethashree M., Asst.Professor, Department of Community Medicine in recognition of outstanding performance and for demonstrating self-less team-work solving the clinical problem during the Medical Device Hackathon (MEDHA) Stage-1 held from May 14<sup>th</sup> to 28<sup>th</sup> 2022 by BETIC, IIT Bombay, Mumbai and JSS College of Pharmacy, Mysuru

Dr.Shwethashree M., Asst.Professor, Department of Community Medicine received Compact Design award



for demonstration self-less team-work and solving problem titled “Student Pocket Mobile Otoscope” during the Medical Device Hackathon (MEDHA) held virtually from May 14<sup>th</sup> to 28<sup>th</sup>, 2022 by BETIC, IIT Bombay and Partner Institutes.

## Paediatric Surgery

Realtime live surgical demonstration and recording using handycam, videocapture card and surgical monitor

## Ophthalmology

1. OPD based teaching methods- Smartphone slit-lamp images of the anterior segment and retinal photography, blue tooth and WhatsApp images
2. OT based teaching methods include CCTV for Watching ongoing surgeries
3. For UGs
4. Photo-Slit Lamp, Fundus camera as demo aids
5. Indirect Ophthalmoscope with teaching mirror
  - a. Video-assisted skill transfer (VAST)
  - b. Hands-on practice for PGs on goats eye and poor grade corneas not indicated for transplantation

## Elderly Care Award at MEDHA 2022



Our faculty Dr Meenakshi S from department of Prosthodontics along with Mr.Sanjay, Mr Raghavendra from JSS science and technology, and Mr Sagar from JSS College of pharmacy has won Elderly care award for their innovation at MEDHA 2022, organised by BETIC ,( Biomedical engineering & technology innovation center, IIT Bombay)

### **Global Immersion programme**



Global Immersion Program - JSS Dental College Students visit to AIMST University, Malaysia. 08 Students from JSS Dental College & Hospital, Mysuru are undergoing a Global Immersion Program at AIMST University, Malaysia for a period of two weeks. The programme combines study abroad experience and exposure in a multi-cultural setting in Malaysia. This unique experience will enhance the skills and learning amongst the students and make them competent globally. The JSSAHER Team wishes them a joyful and fruitful learning experience.

## COLLABORATION WITH INDUSTRIES -Activities related to SDG 9

The department of Anatomy in collaboration with Dr.Sandeep M Diwan, Academic Director, Academy of Regional Anaesthesia of India, Mumbai, Consultant Anaesthesiologist & Pain Physician, Sancheti hospital, Pune and his associates conducted an Academic study titled “Cadaveric study Investigating the spread of dye in the fascial planes and nerves” at our department from 19<sup>th</sup> -22<sup>nd</sup> May 2022.



Sl No	Collaboration with Institution name	Area	Outcome	MOU/MOA
1	Shanmukh solutions	Sickle cell disease	ongoing	MOU
2	SEKHMET solutions	B VOCAL study	ongoing	MOU
3	CSIR-CFTRI and JSS STU, Mysore	AI and Diabetes	The project is currently ongoing	MoA s
4	Bangalore Baptist Hospital	Spinal Muscular atrophy	ongoing	MOU
5	Sadvaidyasala Pvt., Ltd, Nanjangud B.V. PUNDIT's traditional & Herbal Healthcare	Cancer biology	Interdisciplinary clinical research	MOU
6	Karuna Trust an NGO	Community-centered health system	prescription practices of antibiotics at Primary Health care levels	MOU
7	Kempegowda Instituted of Medical Sciences	genomic AMR surveillance		MOU
8	Piramal Swasthya	employment opportunities for MPH Students		
9	Nesa MedTech	RFA of Fibroid	Development of new method for treatment of	Collaborative Research Agreement

			Fibroids is being tested on specimens.	
10	iMERA.AI (UK)	Efficacy of deep learning algorithms in reporting MSK Radiographs	Development of Software is going on	Collaborative Research Agreement
11	Aikenist	Fast MRI	Evaluation going on	Collaborative Research Agreement
12	USI & KEM hospital, Mumbai	Audit of patient's characteristics and surgical practices of management of BOO due to BEP	Ongoing	

## Commercial Agreement with Group Pharmaceuticals



JSS Dental College and Hospital and JSS College of Pharmacy, constituent colleges of JSS Academy of Higher Education and Research, signed commercial agreement with Group Pharmaceuticals. The commercial agreement is towards commercialization of Developed and patented dental poly herbal emulgel for Candida associated oral stomatitis.

The inventors of the formulation are Dr Meenakshi S, Asst. Professor, Dept. of Prosthodontics, JSSDCH, Dr D V Gowda, Professor and HOD Dept. of Pharmaceutics JSSCP, Dr Anil Kumar Gujjari Professor, Dept of Prosthodontics, JSSDCH.

The agreement was signed between Dr Manjunatha B, registrar, JSSAHER, Mr Sunil Attavar, Chairman and Managing Director Group Pharmaceuticals limited, Dr Meenakshi S, inventor of the product, Principal, Dr Ravindra S, JSS Dental College and Hospital.

The program was held at Sri Rajendra Centenary Auditorium JSS Hospital. The agreement was mediated through Sparkle Cine Innovation platform of JSSAHER.

## INDUSTRY ACADEMIA CONNECT

Industry Academia Connect – Life Changing Career at Novo Nordisk was organized on 16/02/2022 by Dr.Jayanthi M.K., Professor and Head, Department of Pharmacology, JSS Medical College in collaboration with Dr.Vijaya Vasantha Kumar – Medical Head and Senior Medical Manager – Novo Nordisk.



Dr.Mohammed Sibgatullah MBBS, MD, Associate Director PVG Physicians. Thermofisher Scientific. Hyderabad, Telangana visited department of Pharmacology and spoke about Significance of pharmacovigilance in patient safety and its impart on health outcomes.



## Number of functional MoUs with institutions of National, International

Organization with which MoU is signed	Year of signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
Dept. of Electronics & Communication Engineering, Maharaja Institute of Technology, Mysore			Fabrication of electronic devices for utilization in Dental Prosthodontics.	Dr Nandithakumar M, Reader, Dept. of Prosthodontics and Crown & Bridge
SJCE-STEP JSS Science and Technology University campus, Manasagangothri, Mysuru SJCE-STEP NIDHI PRAYAS	06.06.2022	06.06.2023	Manual Dental Chair lacks the ergonomics and the ease of controls. The current innovation is the development of a conversion kit to include electronic controls to the manual dental chair, which provides ease of working. The novelty is in the air-chipping system, 4 hole hand	Mr Jayachandran P P Care of SPARKLE CINE foundation JSSAHER & Chief Executive Secretary SJCE-STEP JSS Science and Technology University campus, Manasagangothri, Mysuru

			piece system and ergonomic dentist controlled foot control unit to make the entire chair movement easy to control and hands free.	
M/s. Dentcare Dental Lab private ltd., NAS Road Muvattupuzha Kerala	22.04.2022	21.04.2023	Fabrication of Prosthesis	Dr Ravindra S Principal, JSS Dental College & Hospital &Mr Sreejith Somanathan HOD-Sales & Marketing M/s. Dentcare Dental Lab privateltd.,Kerala
Colgate Palmolive (India) Ltd.,Colgate Research Centre, Main Street, Hiranandani Gardens, Powai, Mumbai – 400076	10.03.2022		Dental, in-vitro and clinical research	Dr B Nandlal Prof., & HOD, Dept. of Pedodontics & Preventive Dentistry &Dr Bhuvaneshwari Gurumurthy Research ScientistColgate- Palmolive (India) Ltd.,
M/s. Arputha Advanced Systems Pvt. Ltd., Coimbatore	9.3.2022	9.3.2024	Developing an audiobrush, providing professional method of tooth brushing at the finger tips of the visually challenged individuals.	Dr Ravindra S PrincipalDr Nitin V Muralidhar, Reader, Dept. of Orthodontics & Dentofacial Orthopedics & Chairman and Managing Director M/s. Arputha Advanced Systems Pvt. Ltd., Coimbatore

Sri Ramachandra Institute of Higher Education and Research, Chennai	15.02.2022		Collaboration of multi centric project titled "Knowledge, attitude and practice regarding caries risk among dental students – A multi centric study"	Dr Vignesh, Senior lecturer, Dept. of Pedodontics & Preventive Dentistry, Sri Ramachandra Institute of Higher Education and Research Dr Indira M D, Lecturer, Dept. of Pedodontics & Preventive Dentistry, JSSDCH Dr Seema Deshmukh, Reader, Dept. of Pedodontics & Preventive Dentistry, JSSDCH
Group Pharmaceuticals Ltd., Bangalore	03.01.2022		Collaboration of funded research project Titled "Fennel Extract gel for Dental Purpose" (Rs.1 Lakh)	Dr B Nandlal HOD, Prof., Dept .of Pedodontics & Preventive Dentistry, JSS Dental College & Hospital & Mr Sunil Chiplunkar Vice President Business development Group Pharmaceuticals Ltd., Bangalore
South Western Railway, Govt. of India, Yadavagiri, Mysuru	12.01.2022	2 Years	Oral health care services to railway employees	Dr Ravindra S, Principal, JSS Dental College & Hospital & Chief Superintendent South Western Railway, Govt. of India, Yadavagiri, Mysuru

Triphase Pharmaceuticals Pvt. Ltd.,Hebbal, Mysuru	Jan 2017	5 Years	Commercialization of Oral Composition comprising Thermostable Probiotics for Oral Health –Oral Patch in high caries risk. Which has been developed as a collaborative activity of JSS Academy of Higher Education & Research and Triphase Pharmaceuticals Pvt. Ltd.,(letter of intent received on 11.1.2022)	Dr Seema Deshmukh Reader, Dept. of Pedodontics, JSSDCH.
M/s. Dabur India Limited New Delhi	1.12.2021		Collaboration of funded research project Titled "Evaluation of the remineralisation potential of two ayurvedic toothpastes on artificially induced carious lesion – an in vitro pilot study"	Dr Parasmull Gehlot Reader Dept. of Conservative Dentistry & Endodontics&Dr Prasun Bandyopadhyay Vice President R & DM/S. Dabur India Ltd.
University of Turin, Italy	30.10.2021	3 Yrs.	Co-operation on new or existing academic programmes, joint research activities, student exchange, faculty exchange and other activities- Forensic Odontology and Human identification	Registrar, JSSAHER, Dept. of Forensic Odontology & Dr Nuzzolese University of Turin, Italy
Arany Lab, Buffalo, New York	22.10.2021	3 Yrs.	Technical Assistance to carry out scientific, academic and clinical research activities on lasers in Dentistry and Photobiomodulation therapy	Registrar, JSSAHER & Dr Praveen Arany Oral Biology, Surgery & Biomedical Engineering, University at Buffalo, New York

**PATENTS** A total of 19 patents are filed from various departments in JSSAHER.

## CONSULTANCY PROJECTS RELATED TO SDG 9

S.No	Consultancy Students/Researchers /Clinical	Local/State/ National/ International	Objectives
1	Dr. Savitha M N	Local- University of Mysore	Research
2	Ms. Rashmi Venkatasubbaiah	Local- JSS Science and Technology University	Research
3	Ms. P Sumathi	Local- Government Ayurveda Medical College & Hospital	Research
4	Ms. Ranjitha M	Local- Dept of Microbiology, JSSMC	Research
5	Ms. Roshini A R	Local- Yuvaraja's College	Research
6	Dr Priya Garg	Local-Dept of Pathology, JSSMC	Research
7	Dr Ashika	Local-Dept of General Medicine, JSSMC	Research
8	Dr Soumya Alice Mathew	Local-Dept of Dermatology JSSMC	Research
9	Amrita Institute of Medical Sciences, Kochi (WHO Unity Study)	Public Health	WHO Unity Study
10	University of Arizona	Public Health	Development of School of Public Health
11	PiramalSwasthya	Public Health	Internship and Research Projects
12	Institute of Public Health	Public Health	Internship and Research Projects
13	Zydus Research Institute	International	Clinical research
14	Zydus Research Institute	International	Clinical research
15	Biomarkers enhanced management of acute kidney injury in Indian patient	International	Research

16	Dr Uma Maheshwari, Assistant Professor Sri Venkateshwara Medical College, Pondicherry	National	Observership
17	Ms AnaghaTupe B.Tech Medical Biotechnology   Dr. D. Y. Patil Biotechnology and Bioinformatics Institute, Dr. D. Y. PatilVidyapeeth University, Pune	National	Internship at IPH as a part of CTRITH
19	Ika Lin	International- University of Arizona, USA	Research
20	Maharanis college	Local	Research project
21	University of Mysore	Local	Research project
22	St Johns Medical College	National	Formative Research
36	Dr. Deepthi Thandaveshwara (PI) Dr Sushma (Co-I)	National	Phase 3, Observer blind, Randomized, Active-Controlled Trial
39	Zydus Research Institute	International	
40	Zydus Research Institute	International	
	Biomarkers enhanced management of acute kidney injury	International	

Particulars	Co-ordinators	Project Cost	GST 18%	Total Project Cost	Received	
					Date	Amount (Rs)
Arya Vaidya Sala Kottakkal	Dr Praveen	1,70,000	30,600	2,00,600	09.09.2021	91,800
Sivasakthi Pharmaceuticals Pvt Ltd	Dr Gowthamrajan	16,949	3,051	20,000	23.08.2021	10,000
Mr M Santhil Kumar Executive Director Allianz Biosciences Pvt Ltd Chennai.	Dr Praveen / Dr Rajesh	6,78,000	1,22,040	8,00,040	13.10.2021	3,60,000
Dr Sivakumar Chief Technology Officer Arviya Technologies Pvt Ltd Thanjavur.	Dr Praveen	32,000	5,760	37,760	19.10.2021	37,760

Iyerka Ooty	Dr Rajesh	21,186	3,814	25,000	17.11.2021	12,500
<b>Total</b>						<b>Rs. 512060</b>

## CLINICAL TRIALS

<b>CTC No.</b>	<b>Name of the faculty (Chief consultant)</b>	<b>Client Organization</b>	<b>Amount Received</b>
105	Dr.Soumya H V	SYNEOS HEALTH UK-	44,000
93	Dr.TSS Rao	CLIANTHA RESEARCH	10,66,772
87	Dr. Subramanian R	Klineria- Patient Visit Period Jan'21	38,940
107	Dr.TSS Rao	CBCCGLOBALRESEARCHLLP	15,98,772
93	Dr.TSS Rao	CLIANTHA RESEARCH	1,00,691
93	Dr.TSS Rao	CLIANTHA RESEARCH	1,72,953
101	Dr. Ravikumar Y S	IQVIA	32,743
107	Dr.TSS Rao	CBCC	84,240
102	Dr. M D Ravi	IQVIA	72,999
93	Dr.TSS Rao	Cliantha	1,18,800
93	Dr.TSS Rao	Cliantha	40,716
131	Dr.TSS Rao	CBCC	23,89,043
107	Dr.TSS Rao	CBCC	2,37,600
105	Dr.Soumya H V	SYNEOS HEALTH UK	89,544
105	Dr.Soumya H V	SYNEOS HEALTH UK--	63,847
105	Dr.Soumya H V	SYNEOS HEALTH UK--	64,151
110	Dr. C L Gurudatt	JSS Medical Asia Pacific Private Limited	18,810
110	Dr. C L Gurudatt	JSS Medical Asia Pacific Private Limited	4,515
93	Dr.TSS Rao	Cliantha Research Limited	14,79,600
93	Dr.TSS Rao	Cliantha Research Limited	4,29,904
110	Dr. C L Gurudatt	JSS Medical Research Asia Pacific Limited	32,400
93	Dr.TSS Rao	Cliantha Research Limited	25,920
134	Dr.TSS Rao	lambda therapeutic	33,76,512
101	Dr. Ravikumar Y S	IQVIA	45,809

		<b>Total Rs.</b>	<b>1,16,29,281</b>
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<b>Sl No.</b>	<b>Consultant Name</b>	<b>CTC No.</b>	<b>Client organization</b>	<b>Amount received (in Rs)</b>
1	Dr.Subramanian	87	Klinera' Nov'21	38,059.00
2	Dr.Subramanian	87	Klinera' Dec'21	42,820.00
3	Dr.Subramanian	128	IQVIA	1,02,600.00
4	Dr.Sowmya H.V.	105	Syneous Health UK Ltd (Quiliu)	49,620.00
5	Dr.Sowmya H.V.	103	Syneous Health UK Ltd(Xbrane)	2,955.00
6	Dr.Sowmya H.V.	103	Syneous Health UK Ltd(Xbrane)	12,000.00
7	Dr.M.D.Ravi	111	Indian Immunological Ltd	1,08,000.00
8	Dr.M.D.Ravi	111	Indian Immunological Ltd	3,82,573.00
9	Dr.T.S.S.Rao	131	CBCC Global Research LLP	2,22,750.00
10	Dr.Sowmya H.V.	103	Xbrane Bio Pharma	1,00,000.00
11	Dr.Ravikumar Y.S.	101	IQVIA	17,087.00
12	Dr.Ravikumar Y.S.	101	IQVIA	9,811.00
13	Dr.Ravikumar Y.S.	101	IQVIA	10,723.00
14	Dr.Sowmya H.V.	103	Syneous Health UK Ltd(Xbrane)	67,649.00
15	Dr.Ravikumar Y.S.	101	IQVIA	17,087.00
16	Dr.Subramanian	87	Klinera	39,515.00
17	Dr.M.D.Ravi	108	Serum institute of India	7,74,065.50
			<b>Total Rs.</b>	<b>19,97,315.00</b>

<b>Sl. No.</b>	<b>Consultant Name</b>	<b>CTC No.</b>	<b>Client organization</b>	<b>Amount received (in Rs)</b>
1	Dr.Shilpa Avarebeel	141	Biological E. Limited	2,91,012.00

2	Dr.Shilpa Avarebeel	133	JSS Medical Research India Pvt Ltd	3,91,650.00
3	Dr.Gurudatt C.L.	154	Abiogenesis Clinpharm Pvt Ltd	40,500.00
4	Dr.Subhash Chandra B. J.	136	Diagnosearch Life Sciences Pvt. Ltd	64,800.00
5	Dr.Deepthi Thandaveshwara	143	CBCC Global Research LLP India	84,951.00
6	Dr.T.S.S.Rao	150	Clia Research Ltd	3,61,584.00
7	Dr.Premnath Raman	NA	Iqvia RDS(India) Pvt. Ltd	2,70,000.00
8	Dr.Deepthi Thandaveshwara	152	Johnson & Johnson Private Limited	1,62,000.00
9	Dr.Prathibha Pereira	136	JSS Medical Research India Pvt.Ltd	64,800.00
10	Dr.Shilpa Avarebeel	141	Biological E. Limited	1,03,896.00
11	Dr.M.D.Ravi	NA	Biological E. Limited	3,73,273.50
12	Dr.Prathibha Pereira	139	Bharath Biotech International Ltd	10,89,383.00
13	Dr.Prathibha Pereira	139	Bharath Biotech International Ltd	78,000.00
14	Dr.Deepthi Thandaveshwara	152	Johnson & Johnson Private Limited	29,35,440.00
15	Dr.Narayanappa D.	146	GlaxoSmithKline (GSK)	81,000.00
16	Dr.T.S.S.Rao	150	Clia Research Ltd	1,08,000.00
17	Dr.Deepthi Thandaveshwara	143	CBCC Global Research LLP India	12,12,300.00
18	Dr.M.D.Ravi	118	Iqvia RDS(India) Pvt. Ltd	4,56,050.00
19	Dr.M.D.Ravi	118	Iqvia RDS(India) Pvt. Ltd	1,18,500.00
20	Dr.Gurudatt C.L.	154	Abiogenesis Clinpharm Pvt Ltd	4,27,140.00
21	Dr.Gurudatt C.L.	154	Abiogenesis Clinpharm Pvt Ltd	4,15,058.00
22	Dr.Mahesh P.A.	151	QED Clinical Services	10,70,658.00
23	Dr.Vikram Patil	NA	Skarray Technologies Limited	2,78,185.00
24	Dr.Shilpa Avarebeel	133	JSS Medical Research India Pvt.Ltd	54,000.00
			<b>Total Rs.</b>	<b>1,05,32,181.00</b>

<b>Total Amount received from Clinical Trials to JSS Hospital</b>	<b>19,97,315.00</b>
<b>Total Amount received Clinical Trials to JSS AHER</b>	<b>1,05,32,181.00</b>

<b>Grand Total Rs.</b>	<b>1,25,29,496.00</b>
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Sl No.	Funding agency	Project Title	Name of the student & Guide	Total fund amount (in Lakhs)	Date of initiation
1	ICMR	Therapeutic efficacy of selected probiotics and expression/suppression of proteins in triple negative breast cancer cells -A role of probiotics in cancer therapy	Dr.Ashish Wadhvani (PI) Dr TK Praveen (Co-PI)	25.80 L	Jan 2022
2	DBT-RRSFP-BUILDER	Nanotheranostics for CVD disease management	Dr. K. Gowthamarajan (PI) Dr. T K Praveen (Co-PI)	10.00	Jan 2022 – Feb 2025
3	DST – PURSE	Understanding the stability of the drugs in microgravity environment	Dr.K. Gowthamarajan (PI) Dr.K Satyanarayana Reddy (Co-PI) Dr. M. Jeya Prakash (Co-PI)	13.30	Jan 2022 – Dec 2026

S.No	Title of Patent	Patent/ Application No.	Name of Inventors	Department	Details of different stages	Current Status	Applicant name
1.	Novel Glitazones as Ppar- $\alpha$ and Ppar- $\gamma$ Agonists and $\alpha$ -Glucosidase Inhibitors	Pat. No. 3828812 266/CHE/ 2012	Dr.M.J Nanjan, Dr.T.K Praveen Dr.MJN Chandrasekar	TIFAC CORE HD	Filed: 06.06.2012 Published: 08.04.2016 Granted: 03.12.2021	Awarded	TIFAC CORE IN HERBAL DRUGS

2.	Surface Modified Benzyl quinolone carboxylic acid- Stearylamine Conjugates for management of Alzheimer's disease	Pat. No: 388590 2019410 25298	Dr.T.K Praveen Chintamaneni Pavan Kumar Pindiprolu Satya Sesha Sai Kiran	Pharmac ology	Filed: 26.06.2019 Published: 02.08.2019 Granted:  07.02.2022	Award ed	JSS College of Pharmacy, Ooty – JSS Academy of Higher Education & Research, Mysuru
3.	Surface Modified Benzyl quinolone carboxylic acid- Stearylamine Conjugates for management of Alzheimer's disease	Pat. No: 388590 2019410 25298	Dr. T. K Praveen Chintamaneni Pavan Kumar Pindiprolu Satya Sesha Sai Kiran	Pharmac ology	Filed: 26.06.2019 Published: 02.08.2019 Granted:  07.02.2022	Award ed	JSS College of Pharmacy, Ooty – JSS Academy of Higher Education & Research, Mysuru

## COLLABORATIVE ACADEMIC ACTIVITIES

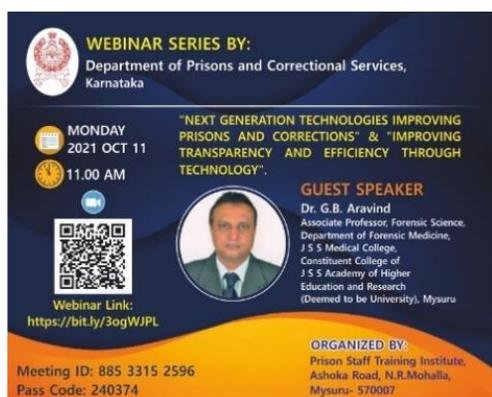
**Dr. Prasanna Kumar S**, Associate professor, department of Biochemistry, CEMR, JSSMC gave a talk on 'New Strategies for cancer prevention and survival' in Alumni connect-Webinar series conducted by department of biotechnology, Sahyadri Science College, Shimoga on 31/07/22.



**Dr. Akila Prashant**, Professor, Department of Biochemistry, gave a talk on 'Update on diagnostics in medical genetics' organised by department of Biochemistry, Raipur institute of medical sciences Raipur on 18/08/2021



**Dr. Praveen Kulkarni**, Associate professor, department of Community Medicine, delivered Guest lecture on 'Collaboration, Innovation and Technology- The New Paradigm of Clinical Research' on 12-13 November 2021



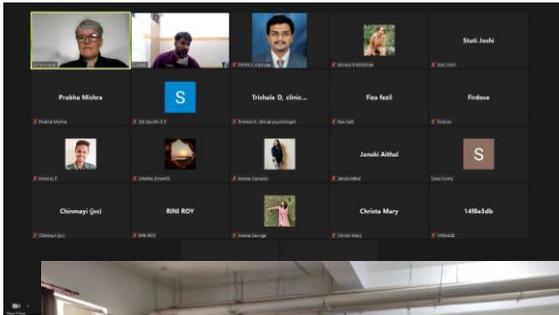
**Dr G B Aravind**, Associate professor, department of Forensic Medicine, JSSMC, gave a talk on 'Next generation technologies improving prisons and correction and improving transparency and efficiency through technology' in a webinar conducted by Department of Prisons and Correctional Services, Karnataka on 11/10/2021.

**Dr G B Aravind**, Associate professor, department of Forensic Medicine, JSSMC, gave a talk on 'Advanced Technologies in Forensic Science' in a webinar conducted by PG Department of Studies and Research in Criminology and forensic Science, Karnataka University, Dharwad, on 22/12/2021

**Dr.Y.S.Ravikumar**, delivered a talk on Innovation in Insulin delivery: A patient-friendly approach in Dew Device Experience Workshop held on 04/07/2021

**Dr.M.Bhanukumar** delivered a talk on Seamless Transition in Diabetes Management with Innovation In Insulin Therapy in Dew Device Experience Workshop held on 23/07/2021

**Anne Krayer**, Research Fellow, Bangor University, UK, on 'Exposure on qualitative research methods - understanding qualitative concepts' on 04/10/2021 and 18/11/2021.



**Dan Isaac Pothiyil**, Assistant Professor, Department of Clinical Psychology, Manipal University visited Dept. of Psychiatry, JSS Hospital and gave an 'Exposure on motivational interviewing - skills learnt' on 29/10/2021



**Dr.Karthik S Harve**, Associate Prof & specialty head for anatomy, HSS cluster, Singapore Institute of Technology, Singapore visited department of Anatomy on 2nd June 2022

to deliver a lecture on "Application of biophysical principles to develop efficient tools for Molecular Diagnostics and Regenerative Medicine"

Special Interest Group on Cancer Biology and Cancer Stem Cells (SIG-CBCSC) in support from Director Academics, JSS AHER has organized a guest lecture on QI Acuity Digital PCR by Mr. Senthilnathan Senguttuvan, Head, Application Scientist Team, Qiagen India Pvt Ltd in the Seminar Room, Department of Biochemistry, JSS Medical College, between 2:00PM to 3:00PM on 28<sup>th</sup> December 2021.



## **GUEST LECTURE ON TREATMENT OF MYELOID LEUKEMIAS WITH ENDOGENOUS MOLECULES**

Special Interest Group on Cancer Biology and Cancer Stem Cells (SIG-CBCSC) in support from Director Academics, JSS AHER has organized a guest lecture on TREATMENT OF MYELOID LEUKEMIAS WITH ENDOGENOUS MOLECULES by Dr. K. Sandeep Prabhu, Professor of Immunology and Molecular Toxicology, Head, Department of Veterinary and Biomedical Sciences, The Pennsylvania State University, University Park, PA, USA in the Seminar Room, Department of Biochemistry, JSS Medical College, between 3:00PM to 4:00PM on 14<sup>th</sup> March 2022.

## **GUEST LECTURE ON WESTERN BLOTTING AND 2D GEL ELECTROPHORESIS**

Special Interest Group on Cancer Biology and Cancer Stem Cells (SIG-CBCSC) in support from Director Academics, JSS AHER has organized a guest lecture on WESTERN BLOTTING AND 2D GEL ELECTROPHORESIS by Dr. Senthil Karunakaran & Mr. Arun Kumar Padmanabhan. Dr. Senthil is a Commercial Marketing Manager – Genomics and Proteomics, Merck Group. Mr. Arun is a Commercial Marketing Manager – Protein Research Workflow Products & Immunoassay Solutions, Merck Group in the Seminar Room, Department of Biochemistry, JSS Medical College, between 9:45AM to 12:30PM on 7<sup>th</sup> April 2022.

## **GUEST LECTURE ON DLS DYNAMIC LIGHT SCATTERING TECHNIQUE**

Special Interest Group on Cancer Biology and Cancer Stem Cells (SIG-CBCSC) in support from Director Academics, JSS AHER has organized a guest lecture on DLS Dynamic Light Scattering technique by Dr. Kapil Joshi., Application Specialist Characterization Division Anton-Paar India Pvt. Ltd., Udyog Vihar, Phase-5, Gurugram-122016 (Haryana), India, in the Seminar Room, Department of Biochemistry, JSS Medical College, between 11:00AM to 12:00Noon on 27<sup>th</sup> April 2022.

## **"BELYSA - IMMUNOASSAY DATA ANALYSIS SOFTWARE"**

The Department of Biochemistry, & Medical Genetics, JSS Medical College in collaboration with Merck laboratories organized an online demonstration on "Belysa - Immunoassay data analysis software" by Merck " on 22<sup>nd</sup> April 2022 between 3:00 to 4:00 PM. Dr. Arunkumar Padmanaban from Merck was the key resource person for the session

Dr. Veena Venkatesh, General Manager, Medical Affairs at Ajanta Pharma Ltd., Mumbai visited department of Pharmacology on 7<sup>th</sup> February 2022. She interacted with the MD, PhD and MSc students and shared her work experiences in various pharmaceutical companies.

## GUEST LECTURE

<b>Date</b>	<b>Title of the Guest lecture</b>	<b>Speaker (with complete Address)</b>	<b>partici pants</b>
7/15/2021	“Pharma Toolkit” Lecture Series 1: Quality Aspects of product lifecycle management	Ms. Lakshmi Achuta. Strategic advisor for Biotech and Pharma and Advisory committee member of Indian Society for clinical research (ISCR- South Chapter)	240
8/2/2021	“Design of Experiment (DOE): Theoretical & Practical aspects”	Dr. V.V.S Narayana Reddy Karri Assistant Professor, JSS College of Pharmacy, Ooty, India	182
8/2/2021	Design of Experiment (DOE): Theoretical & Practical aspects	Dr. V.V.S Narayana Reddy Karri Assistant Professor, JSS College of Pharmacy, Ooty, India	180
10/23/2021	Micro sampling and Micro bio-analysis: Workflow and research opportunities	Dr. Prashant Kole, Senior Principal Investigator, Biocon Bristol – Myers Squibb R & D Center, Bangalore	100
11/11/2021	Cosmetic Industry as a Career Opportunity	Dr. Vijay Bambulkar, Sr. Management Program of J&J from Asian Institute of Management (AIM) Manila, Philippines	100
11/26/2021	Clinical Trial Start-Up Activities: Site Feasibility Questionnaire	Dr. Rovin Mathew Theempalangad, Clinical Research Associate, Clinical Development Services Agency (CDSA), Center for Clinical Research Excellence (CCRE), JSS Hospital	65
11/27/2021	Parenteral Manufacturing Overview and Aseptic Process Simulation	Mr Yashwanth G, Senior Executive, International Regulatory Affairs, Biocon Pvt Ltd, Bangalore.	30
11/28/2021	Clinical Trial Startup activities : Essential Documents	Dr Rovin Mathew Theembalangad Clinical Research Associate, Clinical Development Services Agency (CDSA), Center for Clinical Research Excellence (CCRE), JSS Hospital	65
11/29/2021	Clinical Trial Startup activities: Informed Consent Document Preparation & Translation	Dr. Rovin Mathew Theembalangad, Clinical Research Associate, Clinical Development Services Agency (CDSA), Center for Clinical Research Excellence (CCRE), JSS Hospital	65
11/30/2021	Clinical Trial Startup Activities: procurement and storage of investigational product	Dr Rovin Mathew Theembalangad, Clinical Research Associate, Clinical Development Services Agency (CDSA), Center for Clinical Research Excellence (CCRE), JSS Hospital	65

2/9/2022	Regulating Social Media Providers	Dr Bobby George, Vice President and Head, Regulatory Affairs, Reliance Life Sciences, Mumbai	165
2/11/2022	Diabetes Management: Case Based Learning	Dr. Ronald Castelino, Senior Lecturer in Pharmacology & Clinical Pharmacy Faculty of Medicine and Health, University of Sydney and Renal Pharmacist, Blacktown Hospital, NSW, Australia	73
2/16/2022	Pharmacy Education and Practice in United States	Dr Marina Suzuki, Director, Office of Global Pharmacy Education and Research, School of Pharmacy, Pacific University, Oregon, United States of America	40
2/17/2022	'Public Health Pharmacy Practice - An Evolving Role of Pharmacist'	Dr. Sonal Shekar M, Assistant Professor- Selection Grade, Department of Pharmacy Practice, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal	60
2/18/2022	Signal Detection in Pharmacovigilance	Krishna Undela, Assistant Professor, National Institute of Pharmaceutical Education and Research (NIPER), Guwahati, Assam	60
2/25/2022	AI based tool for Documentation of Clinical Pharmacy Activities	Dr. Gaddam Bhanu Prathap, Founder & CEO, CliniRex, Hyderabad	55
4/7/2022	Be kind to the Mind'	Dr. M. Kishor, Associate Professor, Department of Psychiatry, JSS Medical College & Hospital, Mysuru	101
4/7/2022	Eat Healthy - Stay Wealthy	Ms. Meghana K N, Department of Nutrition & Dietetics, JSS Hospital, Mysuru	101
4/21/2022	Webinar on Real World Data	Prof. K. Arnold Chan & Dr. Krishna Undela, Director, Department of Medical Research Director, Clinical Trial Center, Professor, National Taiwan University College of Medicine, National Taiwan University, Taiwan & Assistant Professor, Department of Pharmacy Practice, National Institute of Pharmaceutical Education and Research, Guwahati	72
4/28/2022	Nocebo Effect in Medication Safety	Dr. Jimmy Jose, Associate. Professor, Dept. Pharmacy Practice, School of Pharmacy, University of Nizwana Sultanate of Oman, Oman	85

5/6/2022	Gender Equality in the Current Era- Importance and Impact on Social Transformation	Dr Archana Gadekar, Associate Professor, Faculty of Law, The Maharaja Sayajirao University of Baroda, Vadodara.	100
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## RESEARCH PROJECTS

SI No	Title	PI & CO-PI	Funding agency	Amount sanctioned	Duration
1	Development of Moringa- Isothiocyanate as Nutraceutical activator of Nrf2 signalling for mitigation of dyslipidemia.	Dr. Rajesh Kumar Thimmulappa Dr. M.V.S.S.T. SubbaRao	DST	32.81	3 years
2	Comparative study for vitiligo surgery of recipient site preparation by dermabrasion and fractional CO2 laser post operative phototherapy & NB-UVB	Dr.Chethana S.G	IADVL	4.43 LAKHS	3 yrs
3	Effectiveness of Covaxin and Covishield vaccines against severe COVID19 in India, 2021: Multi-centric hospital-based case control study	Dr Anil S Bilimale Dr M R Narayana Murthy Site coordinators: Dr Shwethashree M Dr Amoghashree			



## RESEARCH PROJECTS ALIGNING TO THIS GOAL

Sl. No.	Name of the faculty / Department	Name of the project	Sponsoring Agency	Period From To	Status Ongoing / completed / submitted
1	Principal Investigator: Dr Indira M D Lecturer, Dept. of Pedodontics & Preventive Dentistry Co-PI Dr Sushma Dept. of Pediatrics, JSSH	Oral health status and oral health related quality of life among children born preterm- A cross sectional study	ISPPD	1 Yr.	Sanctioned 06.06.2022
2	Principal Investigator: Mr Jayachandran P P Course Co-ordinator Dental Mechatronics & Care of SPARKLE CINE foundation, JSSAHER	NIDHI-Promotion and acceleration of young and aspiring technology entrepreneurs (NIDHI-prayasee)	SJCE-STEP NIDHI PRAYAS	1 Yr.	Sanctioned 06.06.2022
3	Principal Investigator: Dr B Nandlal Prof., Dept. of Pedodontics & Preventive Dentistry Co-PI: Dr Raghavendra Shanbhog, JSSDCH Dr Subbarao, JSSMC Dr Raghunath, JSSDCH Dr Meenakshi, JSSDCH	ATP evaluation of antibiofilm and antimicrobial efficacy of dense denture cleanser tablet	Group Pharmaceuticals Ltd., Bangalore	6 Months	Sanctioned 19.02.2022
4	Principal Investigator: Dr B Nandlal Prof., Dept. of Pedodontics & Preventive Dentistry Co-PI: Dr Raghavendra Shanbhog, JSSDCH Dr Subbarao, JSSMC Dr Mruthyunjaya, JSSCP, Mysore Dr Gowthamrajan, JSSCP, Ooty	Fennel Extract Gel for Dental Purpose-  Phase-1	Group Pharmaceuticals Ltd., Bangalore	1 Year	Sanctioned 03.01.2022

5	Principal Investigator: Dr Chandrashekar B R Prof., & HOD, Dept. of Public Health Dentistry Co-investigators Dr. Jaishankar HP, JSSDCH, Dr. Suma S, JSSDCH, Dr. Praveen Kulkarni, JSSMC, Dr. Madhu B, JSSMC, Dr. Kishor M, JSSMC	Enhancing identification and counseling skills of medical and dental undergraduate students using a customized e-learning module on Tobacco Counseling - An education innovation project using ADDIE framework.	ICMR	3 Yrs.	Sanctioned 30.12.2021
6	Principal Investigator: Dr Aruna G Lecturer Dept. of Periodontology Co-PI: Dr Chandrashekar B R, JSSDCH Dr Venkatesh M C, JSSCP Mysore	Effect of locally delivered melatonin as an adjunct to scaling and root planning in the treatment of Periodontitis with or without diabetes	DST-SERB	1.5 Yrs.	Sanctioned 29.12.2021  CRG/2021/ 002186/29.12.20 21
7	Dr Suman Basavaraju Reader Dept. of Periodontology	Assessing the clinical effectiveness of resolvins as a locally delivered drug as adjuncts to non-surgical periodontal debridement in patients with Periodontitis: clinical and immunological study – A randomized clinical trial	JSSAHER	2 Yrs.	Ongoing
8	Dr Ashwini T S Reader Dept. of Conservative Dentistry & Endodontics	To Evaluate and correlate serum vitamin D levels and antimicrobial peptides in saliva and inverse correlation with inflammatory cytokines in dental health among patients with metabolic syndrome and healthy controls	JSSAHER	2 Yrs.	Ongoing
9	Dr Vidya C S, Prof., Dept. of Anatomy, JSSMC  <b>Co-investigators</b> Dr Vidya G D, Reader, Dept. of Oral pathology	Digital Image Quantification of fungiform papillae and assessment of the metabolome of oral microflora to screen the plausible antagonist(s) of taste and smell receptors in COVID-19 patients	JSSAHER	1 Yr.	Ongoing

10	Dr Anitha Subbappa Reader Dept. of Periodontology <b>Co-investigators</b> Dr Mahesh P A Prof., Dept. of Pulmonology, JSSMCH Dr B Nandlal Prof., Dept. of Pedodontics & Preventive Dentistry	Association of Saliva Interleukin 6 levels in COPD patients with periodontitis	JSSAHER	1 Yr.	<b>Ongoing</b>
11	Dr Mahesh K P Reader, Dept. of Oral Medicine & Radiology <b>Co-investigator</b> Dr Aparna Vijayan N PG Student Dept. of Oral Medicine & Radiology	Efficacy of two different modified brushes for brush biopsy to analyse the cytomorphologic and molecular changes in oral premalignant disorders	JSSAHER	1 Yr.	<b>Ongoing</b>
12	Dr Karthikeya Patil Prof., & HOD Dept. of Oral Medicine & Radiology	Retromolar Canal: A Cone Beam computed tomographic study	JSSAHER	1 Yr.	<b>Ongoing</b>
13	Dr Priyanka Nitin Lecturer Dept. of Oral Pathology <b>Co-investigator:</b> Dr Vishakantesh Gowda Prof. & HOD, JSSCP, Mysore	Development and commercialization of thermochromic hand wash to combat the present COVID 19 pandemic.	JSSAHER	1 Yr.	<b>Ongoing</b>
14	Dr Vidya Priyadharshini D S Reader, Dept. of Periodontology <b>Guide:</b> Dr Ravindra S Prof., Dept. of Periodontology	To evaluate the effect of photo functionalization on secondary stability in short dental implants	JSSAHER	3 Yrs.	<b>Ongoing</b>
15	Dr Sanjay C J Reader Dept. of Oral Medicine & Radiology	Assessment of Oral Red Patch as a diagnostic marker for vitamin B12 deficiency	JSSAHER	2 Yrs.	<b>Ongoing</b>
16	Dr B Nandlal Professor Dept. of Paediatrics & Preventive Dentistry	3D Enhanced devices for Dental Procedures for increasing patient and dental team safety during and post COVID-19	JSSAHER	6 months	<b>Ongoing</b>

14	Dr Vidya Priyadharshini D S Reader, Dept. of Periodontology <b>Guide:</b> Dr Ravindra S Prof., Dept. of Periodontology	To evaluate the effect of photo functionalization on secondary stability in short dental implants	JSSAHER	3 Yrs.	Ongoing
15	Dr Sanjay C J Reader Dept. of Oral Medicine & Radiology	Assessment of Oral Red Patch as a diagnostic marker for vitamin B12 deficiency	JSSAHER	2 Yrs.	Ongoing
16	Dr B Nandlal Professor Dept. of Paediatrics & Preventive Dentistry	3D Enhanced devices for Dental Procedures for increasing patient and dental team safety during and post COVID-19	JSSAHER	6 months	Ongoing
17	Dr Vinutha M Reader, Dept. of Conservative Dentistry & Endodontics	An in vitro evaluation of the apical sealing ability of Bio Root RCS with various core materials: A micro leakage study using Spectrophotometer	JSSAHER	6 months	Ongoing
18	Dr Anitha Subbappa Reader Dept. of Periodontology  <b>Co- Investigators:</b> Dr Harsha Raj B S Lecturer Dept.of Oral & Maxillofacial Surgery	Determination of P.gingivalis and Streptococcus pyogenes incidence by RT PCR in patients with facial space infections caused by odontogenic etiology and prognosis with specific antibiotic therapy determined by antibiotic culture sensitivity	JSSAHER	2 Yrs.	Ongoing

Sl. No.	Name of the faculty / Department	Name of the project	Sponsoring Agency	Period From To	Status Ongoing/ completed/ submitted
1.	Principal Investigator: Dr B Nandlal Prof., & HOD, Dept. of Pedodontics & Preventive Dentistry	Monitoring the effect of indoor air quality in dental healthcare units on the dental health professional and nurses.	ICMR	3 Yrs.	Submitted 15.7.2022
2.	Principal Investigator: Dr B Nandlal Prof., & HOD, Dept. of Pedodontics & Preventive Dentistry	Detection and classification of mandibular fracture on CT scan using deep neural network	BIRAC Ref. No. BT/AGC-JC0144/01/22	6 Months	Submitted May-2022
3.	Principal Investigator: Dr Raghavendra Shanbhog Reader Dept. of Pedodontics & Preventive Dentistry	Machine learning based smart mobile application for detecting clinical dental fluorosis	BIRAC Ref. No. BT/AGC-JC0050/01/22	6 Months	Submitted May-2022
4.	Principal Investigator: Dr Chanchala H P Lecturer Dept. of Pedodontics & Preventive Dentistry	Chlorhexidine oral wipes for debilitated bedridden geriatric patients for home care and hospital care	BIRAC Ref. No. BT/AGC-JC0153/01/22	6 Months	Submitted May-2022
5.	Principal Investigator: Dr Ashwini T S Reader	Methylation of salivary anti-microbial genes (hCAP18 gene & B defensin 2) & their expression in association with vitamin D deficiency : An implication on oral health	SERB Dept. of Science and Technology Govt. of India	3 Yrs.	Submitted 11.4.2022

	Dept. of Conservative Dentistry & Endodontics				
6.	Principal Investigator: Dr Ashwini T S Reader Dept. of Conservative Dentistry & Endodontics Co-PI: Dr Sowmya H K Lecturer, Dept. of Conservative Dentistry & Endodontics	Centre of excellence in micro endodontic	VGST	3 Yrs.	Submitted 22.02.2022
7.	Principal Investigator: Dr Suma S, Reader, Dept. of Orthodontics & Dentofacial Orthopedics Co-PI: Dr Meenakshi S Lecturer, Dept. of Prosthodontics and Crown & Bridge	Quantitative evaluation of factors associated with external apical root resorption and morphometric changes in alveolar bone and roots of maxillary incisor using Digital Subtraction Radiography during orthodontic treatment.	VGST	1 Yr.	Submitted 22.02.2022
8.	Principal Investigator: Dr Chandrashekar B R Prof. & HOD Dept. of Public Health Dentistry Co-PI: Mr Jayachandran PP.	Evolution of a solar based mini mobile and portal dental unit for promotion of oral health in rural and tribal areas.	VGST	2 Yrs.	Submitted 22.02.2022

9.	Principal Investigator: Dr Shyam Sundar S Reader Dept. of Oral & Maxillofacial Surgery  Co-PI:Dr Sahithkumar Shetty Asso. Prof.,Dept. of Oral & Maxillo- facial Surgery	Enhancement and improvement of skill lab infrastructure for training in the management of medical emergencies in dental practice.	VGST	2 Yrs.	Submitted 23.02.2022
10.	Principal Investigator: Dr Prathibha Shashikumar Reader, Dept. of Periodontology Co-PI: Dr Shreeshyla H S Lecturer Dept. of Oral Pathology & Microbiology	Comparison of the efficacy of combination of punica granatum and citrus paradise herbal extract mouth rinse with chlor- hexidine gluconate mouth rinse in the treatment of chronic gingivi-tis-A clinical and microbiological study	ICMR	6 months	Submitted 19.02.2022
11.	Principal Investigator: Dr Srinath S Asso.Prof., SJCE  Co-PI: Dr Rudraswamy S B, Asso.Prof., SJCE Dr Prashanth S Reader Dept. of Pedodontics & Preventive Dentistry Dr Seema Deshmukh Reader Dept. of Pedodontics & Preventive Dentistry	Deep learning based system for automatic cepha- lometric analysis  (Inter-institutional research project with SJCE)	VGST K-FIST	3 Yrs.	Submitted 16.02.2022

12.	Principal Investigator: Dr Raghunandan S NIE College, Mysore Co- PI: Dr Seema Deshmukh Dr Indira M D Dept. of Pedodontics & Preventive Dentistry	Core and shell type multi-functional YSZ based composite material for dental application	DST (Collaborative research with NIE, Mysore)	2 Yrs.	Submitted 14.01.2022
13.	<b>Dr Shyam Sundar S</b> Reader Dept. of Oral & Maxillo-facial Surgery	Synthesis and validation of osteogenic thin films using atomic layer deposition for bone regeneration	DST		<b>Submitted 15.01.2022</b>
14.	Principal Investigator: Dr Anupama C Lecturer, Dept. of Prosthodontics Co-PI: Prof., Akila Prashanth, JSSMC, Dr Suchitha Satish, JSSMC, Dr Raghavendraswamy, - JSSDC Prof., Aradya HV, JSSMC	Investigation of Helicobacter pylori in saliva and denture biofilm of completely edentulous geriatric patients with dyspeptic symptoms and determination of its association to gastric infection	ICMR	31 Months	Submitted 18.12.2021
15.	Principal Investigator: Dr Sowmya S Lecturer Dept. of Prosthodontics and Crown & Bridge Co-PI: Dr Seema Deshmukh Dr Asha Sreenivasan, FLS	Efficacy of infection responsive anti-candida thin film based zinc oxide nano-materials in the management of denture stomatitis - a randomized controlled trial	SERB Govt. of India	30 Months	Submitted 14.12.2021

16.	Principal Investigator: Dr Seema Deshmukh Reader Dept. of Pedodontics & Preventive Dentistry Co-PI: Dr Prashanth Murthy Dr Deepti Thandaveshwara, JSSMC Dr Ravi Shankar SNAccreate Labs Private Limited, B'lore	Assessment of effectiveness of 3D bioprinted feeding appliances on feeding practices and growth parameters in cleft lip and palate affected infants – A Randomized Controlled Trial	SERB Govt. of India	30 Months	Submitted 13.12.2021
17.	Principal Investigator: Dr Anitha S Reader, Dept. of Periodontology Co-PI: Dr Ravindra S, JSSDCH Dr Suneethshetty, JSS-DCH Dr Vidyawathi Chitharagi, JSSMC Dr Prasanna H R, JSS-MC Dr Tejashree A, JSSMC	Comparative Evaluation of the effects of photo-dynamic therapy versus diode laser on microbiota of endoperio lesions in type 2 diabetes patients	SERB Govt. of India	30 Months	Submitted 27.11.2021
18.	Principal Investigator: Dr Parasmull J Reader Dept. of Conservative Dentistry & Endodontics	Evaluation of the remineralisation potential of four toothpastes on artificially induced carious lesion – an in vitro pilot study	Dabur India Ltd.,	1 Yr.	Submitted Sept-2021 MOU on 1.12.2021
19.	Principal Investigator: Dr Shreeshyla H S Lecturer Dept. of Oral Pathology & Microbiology	Oral Candidiasis, HIV, Tuberculosis and Co-existence of the trio- A prospective clinical study to investigate the potential of oral candidiasis in HIV patients as early diagnostic indicator of tuberculosis	ICMR-ITRC	3 Yrs.	Submitted August-2021

20	Dr Prathibha Shashikumar Reader Dept. of Periodontology	Clinical evaluation of photodynamic therapy using indocyanine green loaded chitosan nanoparticles, as an adjunct to non-surgical periodontal therapy in patients with chronic periodontitis"-A randomized controlled trial	JSSAHER	1 Yr.	<b>Submitted 29.06.2022</b>
21	Dr Sheelakumar Gujjari Professor Dept. of Periodontology	Evaluation of cinnamon mucosal patch on candida albicans in diabetic patients with chronic periodontitis	JSSAHER	1 Yr.	Submitted 26.05.2022

## ICMR / VGST FINANCIAL ASSISTANCE FOR STUDENTS MDS DISSERTATION THESIS

Sl. No.	Name of the Student / Department	Name of the project	Sponsoring Agency	Period From To	Status
1	Principal Investigator Dr Abhinav Kathuria PG Student Guide: Dr Shivananda S, Reader, Dept of Oral & Maxillofacial Surgery	Comparative evaluation of bone and soft tissue healing around dental implants among diabetic and hypothyroidism patients – A prospective case control study	ICMR	1 yr.	Submitted July-2022
2	Principal Investigator Dr Suman S DPG Student Dept. of Pedodontics & Preventive Dentistry	Machine learning and deep learning application of lateral cephalometric parameters of growth prediction in children: A comparative study	ISPPD	1 yr.	Submitted Jan-2022 Approval pending
3	Principal Investigator Ms Anusha U BDS Student Guide: Dr Usha Hegde Professor Dept. of Oral pathology	Utility of cytology in immunohistochemical analysis: A comparative assessment among oral potentially malignant disorders and normal mucosa	ICMR-STC	2 months	Sanctioned May-2022  (Submitted 21.02.2022)

3A	Principal Investigator Ms Sara Sultana BDS Student Guide: Dr Sreeshyla H S Lecturer Dept. of Oral pathology	Salivary pH, flow, viscosity and lactate dehydrogenase biomarker-A comparative analysis among tobacco habitués associated with and without oral potentially malignant disorders	ICMR-STs	2 months	Sanctioned May-2022  (Submitted 21.02.2022)
4	Principal Investigator Ms Srushti Shivaraj Sunkad BDS student Guide: Dr Sanjay C J Reader Dept. of Oral Medicine & Radiology	Prevalence of oro-nucosal changes in non-alcoholic fatty liver disease (NAPID) in Indian population	ICMR-STs	2 months	Submitted 21.02.2022
5	Principal Investigator Ms Kevilenud Sekhose BDS student Guide: Dr Nitin V M Reader Dept. of Orthodontics & Dentofacial Orthopedics	Assessment of antimicrobial efficacy curcumin on the oral microbiota in orthodontic patients	ICMR-STs	2 months	Submitted 21.02.2022
6	Principal Investigator Ms Harshita Bharat Prem BDS student Guide: Dr Raghavendra Shanbhog Reader Dept. of Pedodontics & Preventive Dentistry	Development and evaluation of public awareness tool kit in appropriateness of FACE MASK and Covid-19 vaccine under the age of 18 years.	ICMR-STs	2 months	Submitted 19.02.2022

7	Principal Investigator Ms Krihshnapriya Varma BDS student Guide: Dr Ravi M B Reader Dept. of Prosthodontics and Crown & Bridge	Assessment of anxiety among geriatric patients during prosthodontics treatment	ICMR-STs	2 months	Submitted 19.02.2022
8	Principal Investigator Ms Priyanka C P BDS student Guide: Dr Manjula SReader, Dept. of Oral & Maxillofacial Surgery	Comparative evaluation of post extraction socket healing in diabetic and non-diabetic patients a prospective study	ICMR-STs	2 months	Submitted 18.02.2022
9	Principal Investigator Ms Shevangi Baruah Pegu BDS student Guide: Dr R Sathish Professor Dept. of Oral &Maxillofacial Surgery	Neurological consequences of oral and maxillofacial surgery	ICMR-STs	2 months	Submitted 18.02.2022

10	Principal Investigator Mr Adithya Mahesh BDS student Guide: Dr Seema Deshmukh Reader Dept. of Pedodontics & Preventive Dentistry	Evaluation of effect of augmented reality assisted tooth brush on theoral hygiene practices among 6-8 year old children	ICMR-STs	2 months	Sanctioned May-2022  (Submitted 18.02.2022)
11	Principal Investigator Ms Nishika S Gowda BDS student Guide: Dr Nagabhushana Doggalli Reader, Dept. of Oral Medicine & Radiology	Willems method of age estimation in mysuru population	ICMR-STs	2 months	Submitted 18.02.2022
12	Principal Investigator Ms Sumukhi S Rao BDS student Guide: Dr B Nandlal Professor Dept. of Pedodontics & Preventive Dentistry	Evaluating efficacy of remote site education by whats app using filmed version of brushing method in children with type 1 diabetes	ICMR-STs	2 months	Submitted 18.02.2022
13	Principal Investigator Ms Aston Varghese BDS student Guide: Dr Maurya M Lecturer Dept. of Public HealthDentistry	Oral Health status and quality of life among middle aged male smokers and nonsmokers in mysore city-A comparative study	ICMR-STs	2 months	Sanctioned May-2022  (Submitted 18.02.2022)

14	Principal Investigator Ms Anju Vijayan Nair BDS student Guide: Dr Aruna G Lecturer Dept. of Periodontology	Expression of autophagy-5 protein in periodontal health and disease	ICMR-STs	2 months	Submitted 18.02.2022
15	Principal Investigator Ms Reshmitha R BDS student Guide: Dr Sushma R Lecturer Dept. of Public HealthDentistry	Influence of personal, social, environmental factors on adolescents consuming carbonated drinks and its effect on hard tissues of oral cavity	ICMR-STs	2 months	Submitted 18.02.2022
16	Principal Investigator Ms Suhani Jain BDS student Guide:Dr Sowmya H K Lecturer Dept. of Conservative Dentistry & Endodontics	Comparison of dentinal tubule occlusion of an herbal and non herbal mouthwash-A scanning electron microscopic study	ICMR-STs	2 months	Submitted 18.02.2022

17	Principal Investigator Ms Tejaswini Agarwal BDS student Guide: Dr Talwade priyanka Lecturer Dept. of Pedodontics & Preventive Dentistry	Impact of covid-19 on healthcare profession aspirants will the virus expedite the shortage of doctors in the country-A cross sectional survey	ICMR-STs	2months	Submitted 18.02.2022
18	Principal Investigator Mr Abhinav P R BDS Student Guide: Dr Mahesh K PReader, Dept. of Oral Medicine & Radiology	A comparative study between self controlled energetic neuro adaptive regulator and commercially available similar equipment in the management of orofacial pain	ICMR-STs	2 months	Submitted 18.02.2022
19	Principal Investigator Ms Disha R Jain BDS student Guide: Dr Girish M S Reader, Dept. of Pedodontics & Preventive Dentistry	Knowledge about oral health status during pregnancy and awareness of infant oral health among mothers in anti natal period	ICMR-STs	2 months	Submitted 18.02.2022
20	Principal Investigator Ms Annmaria Reeson Guide: Dr Annapoorna B M Professor Dept. of Conservative Dentistry & Endodontics	A prospective cohort study in patients with dental lesions during different gestation period in the province of mysuru	ICMR-STs	2 months	Submitted 18.02.2022

21	Principal Investigator Ms Dishani Halder BDS student Guide: Dr Chandrashekar B R Prof. & HOD, Dept. of Public Health Dentistry	Effectiveness of dental health education in enhancing knowledge, practices on emergency management of tooth avulsion among Karnataka state road transport corporation employees in mysuru	ICMR-STs	2 months	Submitted 18.02.2022
22	Principal Investigator Ms Samyuka S Gowda BDS student Guide: Dr Sunitha SReader, Dept. of Public Health Dentistry	Antimicrobial efficacy of essential oils of clove, tulsi and eucalyptus on smutans and lactobacillus in composition with 0.27 clohexidine – an in vitro experimental study	ICMR-STs	2 months	Submitted 18.02.2022
23	Principal Investigator Ms Akanksha Choudhary BDS student Guide:Dr Ashwini T SReader, Dept. of Conservative Dentistry & Endodontics	Evaluate and correlate the salivary vitamin D and salivary calcium and phosphorus levels in patients with dental caries in healthy male and female	ICMR-STs	2 months	Submitted 18.02.2022
24	Principal Investigator Ms Sreelakshmi M D BDS student Guide:Dr Shruti S Kumar Lecturer Dept. of Pedodontics & Preventive Dentistry	Estimation of salivary cortisol levels in children with mild to moderate hearing loss.	ICMR-STs	2 months	Submitted 17.02.2022

25	Principal Investigator Ms Aiswariya P BDS student Guide: Dr Avinash B S Reader, Dept. of Periodontology	Comparison of reduction of dental plaque and gingivitis with and without visual aid instructions in orthodontic cases a randomized single blind clinical study	ICMR-STs	2 months	Submitted 17.02.2022
26	Principal Investigator Ms Lakshmeesha D BDS student Guide:Dr Shivananda S Lecturer Dept. of Pedodontics & Preventive Dentistry	Evaluation of the antibacterial efficacy of the essential oil of spilanter acmella on bacteria causing dental caries and periodontal disease – an in vitro microbiological array	ICMR-STs	2 months	Submitted 17.02.2022
27	Principal Investigator Ms Sandra Prasad Felix Cherukodath BDS student Guide:Dr Brinda Suhas Godhi Reader Dept. of Pedodontics & Preventive Dentistry	Anti-bacterial efficacy of alpinia officinarum against oral pathogen in comparison with commercially available mouthwash-an in vitro study	ICMR-STs	2 months	Submitted 17.02.2022
28	Principal Investigator Ms Samredhi Singh BDS student Guide: Dr Indira M D Lecturer Dept. of Pedodontics & Preventive Dentistry	Prevalence of early childhood caries among children born pre term – A cross sectional study	ICMR-STs	2 months	Submitted 17.02.2022

29	Principal Investigator Ms Akshitha Bhatt Yogaraj BDS student Guide: Dr Parinitha M S Reader, Dept. of Conservative Dentistry & Endodontics	To compare the effect of propolis varnish and green tea varnish on treatment of dentinal hypersensitivity. An in-vitro scanning electron microscope study	ICMR-STs (2022- 06373)	2 months	Sanctioned June -2022  (Submitted 17.02.2022)
30	Principal Investigator Ms Hima M Final BDS student Guide: Dr Meenakshi S Lecturer, Dept. of Prosthodontics and Crown & Bridge	A biomechanical reinforcement of PMMA denture based material with sericin and fibroin; A preliminary screening study	ICMR-STs	2 months	Sanctioned May -2022  (Submitted 17.02.2022)
31	Principal Investigator Mr Swagatam Dhali BDS student Guide:Dr Anitha S Reader Dept. of Periodontology	Evaluation of migration inhibitory factor, (MDF) Level in gingival crevicular fluid and serum in periodontal health and disease with and without type-II diabetes	ICMR-STs	2 months	Submitted 16.02.2022
32	Principal Investigator Mr Arjun S BDS student Guide: Dr Sowmya S Lecturer Dept. of Prosthodontics and Crown & Bridge	Analysis of associatin between oral hygiene, tooth loss among Alzheimer patients using montreal cognitive assessment and lactoperrin salivary biomarkers	ICMR-STs	2 months	Submitted 16.02.2022

33	Principal Investigator Ms. Anuharshitha Karanam Thinnapuram  BDS student Guide: Dr Premalatha B R Reader, Dept. of Oral Pathology & Microbiology	Cheilosopic analysis of different ethnic population of south India –A cross sectional study	ICMR-STs	2 months	Submitted 16.02.2022
34	Principal Investigator Ms. Pragathi M H BDS Student  Guide:Dr Chandan S N Reader Dept. of Oral &Maxillofacial Surgery	Prevalence of antibiotic resistance in odontogenic space infection	ICMR-STs	2 months	Submitted 04.02.2022
35	Principal Investigator Ms Kiruthika M IV BDS student Guide: Dr Anupama C Lecturer Dept. of Prosthodontics and Crown & Bridge	Prevalence of missing tooth and reasons for not replacing lost teeth: a cross-sectional survey among dental students and medical students	ICMR-STs	2 months	Submitted 03.02.2022
36	Dr Parvathi Sudeep PG Student  Guide: Dr Paras Mull J Reader, Dept. of Conservative Dentistry & Endodontics	Apically extruded debris and canal cleanliness following retreatment of calcium silicate-based sealer and single cone obturation with XP-endo shaper and wave one gold with the without the use of supplementary instrumentation techniques: an in vitro comparative study	JSSAHER	1 Year	Submitted 08.08.2022

37	Dr Ankita Singh PG Student Guide: Dr Sunil Tejaswi  Reader, Dept. of Conservative Dentistry & Endodontics	Comparative evaluation of microhardness and color change of root dentin using punica greanatum (Pomegranate extract), sodium hypochlorite, chlorhexidine and normal saline as an endodontic irrigant – an in vitro study	JSSAHER	2 Years	Submitted 08.08.2022
38	Dr Kotha Naga Sai Maruti Venkanna Gupta  PG Student Guide: Dr AnnapoornaB M Prof., Dept. of Conservative Dentistry & Endodontics	Comparative evaluation of dentine remineralization potential of different agents using QLF,SEM,DEX-An vitro study	JSSAHER	2 Years	Submitted 08.08.2022
39	Dr Akshay G PG Student  Guide: Dr Parinitha M S Prof., Dept. of Conservative Dentistry & Endodontics	Effect of herbal antiozidant on push out bond strength of resin based composite to dentin after intracoronal bleaching – an invitro study	JSSAHER	2 Years	Submitted 08.08.2022
40	Dr Prakash P PG Student  Guide: Dr Anilkumar G Prof., Dept. of Prosthodontics and Crown & Bridge	Evaluation of ultraviolet light, dentifrices and tap water brushing techniques for disinfecting removable acrylic dentures – A comparative ex-vivo study	JSSAHER	2 Years	Submitted 08.08.2022

41	Dr Laura Anne Prisca Melba Albuquerque PG Student Guide: Dr Sunila B S Reader Dept. of Prosthodontics and Crown & Bridge	Efficacy of chemically and biologically synthesized zinc oxide nanoparticles incorporated in soft denture liner against candida albicans – A comparative in vitro study	JSSAHER	2 Years	Submitted 11.07.2022
42	Dr M Anusuya PG Student Guide: Dr Ravi M B Reader Dept. of Prosthodontics and Crown & Bridge	Incorporation of naturally obtained hydroxyapatite nanoparticles in resin luting cements and GIC to evaluate water sorption and solubility –an in vitro study	JSSAHER	2 Years	Submitted 18.05.2022
43	Dr Nikita Sebastian PG Student Guide: Dr Ashwini T S Reader, Dept. of Conservative Dentistry & Endodontics	Evaluation and comparison of the efficiency of ultrasonically activated intracanal irrigants grape seed and pineapple extract in removing the smear layer from the apical third of the root canal: An in vitro SEM analysis	JSSAHER	2 Years	JSSAHER/REG/ RES/URG/54/2011- 12/2267/27.5.2022
44	Dr Kritika Banerjee PG student Guide: Dr Sheelakumar G Prof., Dept. of Periodontology	Assessment of wound healing using MMP-8 levels in GCF of diabetics with chronic periodontitis after diode laser assisted flap surgery	JSSAHER	1 Yr.	Ongoing No.JSSAHER/REG/ RES/ URG/54/2011-12/ 10419/24.2.2022

45	Dr Mirunalini Sundaravadivelu PG student Guide: Dr Chandrashekar B R, Dept. of Public Health Dentistry	Evaluation of sealant retention and caries prevention on first and second premolars and molars among 6-14 years old children-A double blind randomized split mouth trial.	JSSAHER	1 Yr.	Ongoing  No.JSSAHER/REG/ RES/ URG/54/2011-12/ 10419/24.2.2022
46	Dr Madhushree J T PG Student Guide: Dr Deepika P C Professor, Dept. of Periodontology	Evaluation of ocimum sanctum local drug delivery as an adjunct to scaling and root planning in the treatment of chronic periodontitis: A clinical and microbiological study	JSSAHER	1 Yr.	Ongoing  No.JSSAHER/REG/ RES/ URG/54/2011-12 / 10392/15.2.2022
47	Dr Priyanka Agarwal PG Student Guide: Dr Prathibha Shashikumar Reader, Dept. of Periodontology	Efficacy of Antimicrobial photodynamic therapy using indocyanine green as an adjunct to nonsurgical periodontal therapy in controlled type 2 diabetes mellitus patients with chronic periodontitis: A clinical and microbiological study	JSSAHER	3 Months	Ongoing  No.JSSAHER/REG/ RES/ URG/54/2011-12 / 10392/15.2.2022
48	Dr Jeessica PG Student Guide: Dr B Nandlal Prof., & HOD, Dept.of Pedodontics & Preventive Dentistry	Evaluation of remineralization of demineralized dentin of primary teeth using quantitative light induced fluorescence and scanning electron microscope study: An in vitro study	JSSAHER	1 Year	Ongoing  Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021

49	Dr Harshitha N PG Student Guide: Dr Karthikeya Patil Prof., & HOD, Dept. of Oral Medicine & Radiology	Efficacy of vitamin D oral gel in prevention and management of radiation induced oral mucositis	JSSAHER	1 Year	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
50	Dr Romali Panda PG Student Guide: Jaishankar H P Reader, Dept. of Oral Medicine & Radiology	Serum vitamin B12 deficiency in metformin and non metformin treated type 2 diabetes mellitus patients: A comparative study	JSSAHER	2 Years	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
51	Dr Renuka Devi K R PG Student Guide: Dr Karthikeya Patil Prof., & HOD, Dept. of Oral Medicine & Radiology	Efficacy of zinc sulfate mouthwash in managing patients with radiotherapy induced oral mucositis	JSSAHER	1 Year	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
52	Dr Soumee Sengupta PG Student Guide: Dr Ganesh S Reader, Dept. of Prosthodontics and Crown & Bridge	Comparative evaluation of antibacterial efficacy of red diode laser and 0.2% chlorhexidine against aggregatibacter Actinomycetemcomitans present on implant abutments – an ex-vivo study	JSSAHER	1 Year	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021

53	Dr Bharath S PG student Guide: Dr Chandrashekar Prof., & HOD, Dept. of Public Health Dentistry	Antimicrobial efficacy of essential oils of clove, neem and cinnamon on streptococcus mutans and Lactobacillus acidophilus in comparison with 0.2% chlorhexidine – An in-vitro study	JSSAHER	9 Months	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
54	Dr Mirunalini Sundaravadivelu PG Student Guide: Dr Chandrashekar Prof., & HOD, Dept. of Public Health Dentistry	Effectiveness of dental health education in enhancing the knowledge, attitude and practices related to emergency management of dental trauma and tooth avulsion among ASHA workers in Mysuru district – An interventional study	JSSAHER	1 Year	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
55	Dr Shyla Dureja PG Student Guide: Dr Raghavendraswamy Prof., Dept. of Prosthodontics and Crown & Bridge	Effect of incorporation of reduced graphene oxide nanoparticles on the mechanical properties of heat cured polymethylmethacrylate denture base resin material fabricated by conventional processing method : An in-vitro study	JSSAHER	2 Years	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
56	Dr Dipasha Kirthi Rao PG Student Guide: Dr Raghunath N Orthodontics & Dentofacial Orthopedics	Assessment of orthodontic treatment needs in individuals with sleep disordered breathing	JSSAHER	1.5 Year	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021

57	Dr Saumya Upadhyay PG Student Guide: Dr Raghunath N Orthodontics & Dentofacial Orthopedics	A comparison of treatment effects produced by advansync and forsus fatigue resistant device in growing class II patients – An in vivo study	JSSAHER	1.5 Year	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
58	Dr Anusha A Joshi PG Student Guide: Dr Raghunath N Orthodontics & Dentofacial Orthopedics	Analysis and comparison of pharyngeal airway morphology and dentoskeletal changes following mandibular advancement with functional appliances in class II malocclusion with skeletal mandibular retrognathism: A CBCT study	JSSAHER	1 Year	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
59	Dr Aiswarya Balakrishna PG Student Guide: Dr B Nandlal HOD, Dept. of Paediatric & Preventive Dentistry	A Comparative Assessment of the efficacy of commercially available low concentration bleaching agents using quantitative light induced fluorescence in removing stains: an in vitro study	JSSAHER	1 Year	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
60	Dr Ashwini K P PG student Guide Dr Raghavendra Shanbhog Reader, Dept. of Paediatric & Preventive Dentistry	Efficacy of Self assembling peptide P 11-4 in constructing a remineralization scaffold on incipient enamel lesions on human enamel, used in combination with calcium phosphate based remineralization compounds: An in vitro study.	JSSAHER	2 Years	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021

61	Dr Arundhatee Banerjee PG Student Guide: Dr Seema Deshmukh Reader, Dept. of Paediatric & Preventive Dentistry	An In Vitro comparative evaluation of the efficacy of green tea and chia seeds extract as intra canal irrigant on smear layer removal and its effect on the microhardness of root dentine.	JSSAHER	1 Year	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
62	Dr Contractor Inshiya Alazhar PG Student Guide: Dr Girish M S Reader, Dept. of Paediatric & Preventive Dentistry	An in-vitro evaluation of tooth discolouration and shear bond strength of Glass Ionomer cement bonded to tooth surface pre-treated with silver Diamine fluoride and Glutathione bio-molecule	JSSAHER	4 Months	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
63	Dr Brindha M PG Student Guide: Dr Parasmull G Reader, Dept. of Conservative Dentistry & Endodontics	Effect of two universal bonding agents on fracture resistance, microleakage and fluoride release in class 2 MOD cavities of maxillary premolars restored with active bioactive-an in vitro comparative study	JSSAHER	3 Months	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
64	Dr Raveena P John PG Student Guide: Dr Vinutha M Reader, Dept. of Conservative Dentistry & Endodontic	An in vitro comparative study of fluoride ion release from tooth coloured dental restorative materials using ion selective electrode and spectrophotometer	JSSAHER	3 Months	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021

65	Dr Ashique Navas K K PG Student Guide: Dr Annapoorna B M HOD, Dept. of Conservative Dentistry & Endodontics	Comparative Evaluation of Fracture resistance of varying thickness of peri-cervical dentin (PCD) reinforced with different obturation materials-an invitro study	JSSAHER	3 Months	Ongoing Sanctioned vide order no.REG/ DIR(R)/URG/ 54/2011-12/5661/ Dt 1.10.2021
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### External Funded Research Projects: Submitted

Sl. No.	Name of the faculty / Department	Name of the project	Amount (Minor / Major) In Lakhs	Sponsoring Agency	Period From To
1.	<b>Principal Investigator:</b> Dr B Nandlal Prof., & HOD, Dept. of Pedodontics & Preventive Dentistry	Monitoring the effect of indoor air quality in dental healthcare units on the dental health professional and nurses.		ICMR	3 Yrs.
2.	Principal Investigator: Dr B Nandlal Prof., & HOD, Dept. of Pedodontics & Preventive Dentistry	Detection and classification of mandibular fracture on CT scan using deep neural network	10.00	BIRAC Ref. No. BT/ AGCJC0144/01/22	6 Months
3.	Principal Investigator: Dr Raghavendra Shanbhog Reader Dept. of Pedodontics & Preventive Dentistry	Machine learning based smart mobile application for detecting clinical dental fluorosis	10.00	BIRAC Ref. No. BT/ AGCJC0050/01/22	6 Months
4.	Principal Investigator: Dr Chanchala H P Lecturer Dept. of Pedodontics & Preventive Dentistry	Chlorhexidine oral wipes for debilitated bedridden geriatric patients for home care and hospital care	10.00	BIRAC Ref. No. BT/ AGCJC0153/01/22	6 Months

5.	Principal Investigator: Dr Ashwini T S Reader Dept. of Conservative Dentistry & Endodontics	Methylation of salivary antimicrobial genes (hCAP18 gene & B defensin 2) & their expression in association with vitamin D deficiency : An implication on oral health	44.709	SERB Dept. of Science and Technology Govt. of India	3 Yrs.
6.	Principal Investigator: Dr Ashwini T S Reader Dept. of Conservative Dentistry & Endodontics Co-PI: Dr Sowmya H K Lecturer, Dept. of Conservative Dentistry & Endodontics	Centre of excellence in micro endodontic	40.00	VGST	3 Yrs.
7.	Principal Investigator: Dr Suma S Reader, Dept. of Orthodontics & Dentofacial Orthopedics Co-PI: Dr Meenakshi S Lecturer, Dept. of Prosthodontics and Crown & Bridge	Quantitative evaluation of factors associated with external apical root resorption and morphometric changes in alveolar bone and roots of maxillary incisor using Digital Subtraction Radiography during orthodontic treatment.	2.5	VGST	1 Yr.
8.	Principal Investigator: Dr Chandrashekar B R Prof. & HOD Dept. of Public Health Dentistry Co-PI:Mr Jayachandran PP.	Evolution of a solar based mini mobile and portal dental unit for promotion of oral health in rural and tribal areas.	25.00	VGST	2 Yrs.
9.	<b>Principal Investigator:</b> Dr Shyam Sundar S Reader Dept. of Oral & Maxillofacial Surgery <b>Co-PI:</b> Dr Sahithkumar Shetty Asso. Prof., Dept. of Oral & Maxillofacial Surgery	Enhancement and improvement of skill lab infrastructure for training in the management of medical emergencies in dental practice.	19.58	VGST	2 Yrs.
	Principal Investigator: Dr Prathibha Shashikumar Reader, Dept. of Periodontology Co-PI:Dr Shreeshyla H S Lecturer Dept. of Oral Pathology &	Comparison of the efficacy of combination of punica granatum and citrus paradise herbal extract mouth rinse with chlorhexidine gluconate			

10.	Microbiology	mouth rinse in the treatment of chronic gingivitis-A clinical and microbiological study	1.00	ICMR	6 months
11.	Principal Investigator: Dr Srinath S Asso.Prof., SJCE Co-PI:Dr Rudraswamy S B, Asso.Prof., SJCE Dr Prashanth S Reader Dept. of Pedodontics & Preventive Dentistry Dr Seema Deshmukh Reader Dept. of Pedodontics & Preventive Dentistry	Deep learning based system for automatic cephalometric analysis  (Inter-institutional research project with SJCE)	15.00	VGST K-FIST	3 Yrs.
12.	Principal Investigator: Dr Raghunandan S NIE College, Mysore Co- PI:Dr Seema Deshmukh Dr Indira M D Dept. of Pedodontics & Preventive Dentistry	Core and shell type multifunctional YSZ based composite material for dental application	44.91	DST (Collaborative research with NIE, Mysore)	2 Yrs.
13.	Dr Shyam Sundar S Reader Dept. of Oral & Maxillofacial Surgery	Synthesis and validation of osteogenic thin films using atomic layer deposition for bone regeneration	600.00	DST	
14.	Principal Investigator: Dr Anupama C Lecturer, Dept. of Prosthodontics Co-PI: Prof., Akila Prashanth, JSSMC Dr Suchitha Satish, JSSMC Dr Raghavendraswamy, JSSDC Prof., Aradya HV, JSSMC	Investigation of Hylcobacter pylori in saliva and denture biofilm of completely edentulous geriatric patients with dyspeptic symptoms and determination of its association to gastric infection	15.00	ICMR	31 Months
15.	Principal Investigator: Dr Sowmya S Lecturer Dept. of Prosthodontics and Crown & Bridge Co-PI: Dr Seema Deshmukh Dr Asha Sreenivasan, FLS	Efficacy of infection responsive anti-candida thin film based zinc oxide nanomaterials in the management of denture stomatitis – a randomized controlled trial	17.89169	SERB Govt. of India	30 Months

16.	Principal Investigator: Dr Seema Deshmukh Reader Dept. of Pedodontics & Preventive Dentistry Co-PI: Dr Prashanth Murthy Dr Deepti Thandaveshwara, JSSMC Dr RaviShankar SN Accreate Labs Private Limited, B'lore	Assessment of effectiveness of 3D bioprinted feeding appliances on feeding practices and growth parameters in cleft lip and palate affected infants – A Randomized Controlled Trial	26.71393	SERB Govt. of India	30 Months
17.	Principal Investigator: Dr Anitha S Reader, Dept. of Periodontology Co-PI: Dr Ravindra S, JSSDCH Dr Suneethshetty, JSSDCH Dr Vidyawathi Chitharagi, JSSMC Dr Prasanna H R, JSSMC Dr Tejashree A, JSSMC	Comparative Evaluation of the effects of photodynamic therapy versus diode laser on microbiota of endoperio lesions in type 2 diabetes patients	37.00	SERB Govt. of India	30 Months
18.	Principal Investigator: Dr Parasmull J Reader Dept. of Conservative Dentistry & Endodontics	Evaluation of the remineralisation potential of four toothpastes on artificially induced carious lesion – an in vitro pilot study	1.67	Dabur India Ltd.,	1 Yr.
19.	Principal Investigator: Dr Shreeshyla H S Lecturer Dept. of Oral Pathology & Microbiology	Oral Candidiasis, HIV, Tuberculosis and Co-existence of the trio- A prospective clinical study to investigate the potential of oral candidiasis in HIV patients as early diagnostic indicator of tuberculosis	29.00	ICMR-ITRC	3 Yrs.

## INNOVATIONS IN ACADEMICS THROUGH LECTURES ORGANISED BY ACADEMIC SOCIETY

### Faculty awards

Sl no	Particulars
1	Dr Pradeep S, Lecturer, Dept. of Orthodontics & Dentofacial Orthopedics Awarded as Diplomate of the Indian Board of Orthodontics - Indian Board of Orthodontics Convocation, Saveetha Dental College, Chennai, 16th & 17th September 2021 - National
2	Dr Bhagyalakshmi A, Reader, Dept. of Orthodontics & Dentofacial Orthopedics Faculty Advisor and Project Mentor titled - MAHE- FAIMER International Institute for Leadership in Inter professional Education (M-FIILPE), Manipal Academy of Higher Education, Manipal in collaboration with Foundation for Advancement of International Medical Education and Research, Philadelphia, USA, 31st July to 18th September 2021 - International
3	Dr Bhagyalakshmi A, Reader, Dept. of Orthodontics & Dentofacial Orthopedics Awarded Covid warrior titled - JSS Hospital, M G Road, Mysuru, 18th September 2021 - National
4	Dr Vidya G D, Reader, Dept. of Oral Pathology & Microbiology Awarded first position in scientific poster presentation Sterilization methods on extracted human teeth - A Comparative study on evaluation of efficacy - 18th Annual National Conference of Indian Association of Forensic Odontology on Innovations and Trends in Forensic Odontology, Dept. of Forensic Medicine, Seth G S Medical College and KEM Hospital, Mumbai in collaboration with Dept. of Oral Pathology & Microbiology, Nair Hospital Dentaql College, Mumbai, 25th & 26th September 2021 - National
5	Dr Brinda S Godhi, Reader, Dept. of Pediatric and Preventive Dentistry Awarded Corona warrior - Mysuru City Corporation, Mysuru, October 2021 - Regional
6	Dr Thippeswamy H M, Reader, Dept. of Public Health Dentistry PhD awarded in Faculty of Dental Sciences A study of determine the effect of fluoride in drinking water on calcium, vitamin-D and associated hormones in pregnant women and their newborns - JSS AHER, Mysuru, 11th October 2021 - National
7	Dr Mahesh K P, Reader, Dept. of Oral Medicine & Radiology Recognition for his invaluable contribution & cooperation extended - Lions Club of Mysore Millennium & Sanjana Balaga Pratisthana, Mysuru, 17th October 2021 - Regional
8	Dr Nitin V Muralidhar, Reader, Dept. of Orthodontics & Dentofacial Orthopedics Winning Top 10 in the Global Outreach Dental Innovation Award 2021 - Mini Implant Supporting Molar Tube for Orthodontics (MIST) - Global Outreach Medical and Health Association, BioLine Dental Implants System, India, 7th October 2021 - National
9	Dr Mahesh K P, Reader, Dept. of Oral Medicine & Radiology Awarded the prestigious Asia Pacific award - Life Time Achievement in education sector The award is given looking at his achievements and hard work since 15 years - Belagave Education Pvt Ltd, Maharashtra and Common Wealth Vocational University, Kingdom of Tonga, Belagave Education Pvt Ltd, Maharashtra, 23rd October 2021 - International

10	Dr Sushma R, Lecturer, Dept. of Public Health Dentistry PhD awarded in Faculty of Dental Sciences Antimicrobial efficacy of simarouba glauca lead extract on dental plaque microorganisms - JSS AHER, Mysuru, 29th October 2021 - National
11	Dr Meenakshi S, Lecturer, Dept. of Prosthodontics and Crown & Bridge Awarded Implant Fellowship Dental implants - S M Dental Study Group, S M Dental Study Group, Madanapalle, AP, 22nd to 24th October 2021 - National
12	Dr Meenakshi S, Lecturer, Dept. of Prosthodontics and Crown & Bridge Awarded Best paper presentation Development and evaluation of polyherbal formulation for antifungal activity in geriatric denture wearers-A randomized double blind clinical trial - World Dental Conference 2021, World Dentists Association - Virtual, 27th to 31st October 2021 - International
13	Dr Brinda S Godhi, Reader, Dept. of Pediatric and Preventive Dentistry PhD awarded in Faculty of Dental Sciences - JSS AHER, Mysuru, October-2021 - National
14	Dr Sushma R, Lecturer, Dept. of Public Health Dentistry PhD awarded in Faculty of Dental Sciences - JSS AHER, Mysuru, October-2021 - National
15	Dr Nandlal B, Prof. & HOD, Dept. of Pediatric and Preventive Dentistry Nominated as Vice Chair - Cleft and Craniofacial Anomalies Board of Federation of Special Care Dentistry, India, 19th November 2021 - National
16	Dr Brinda S Godhi, Reader, Dept. of Paedodontics and Preventive Dentistry Served as Executive Committee Member, - Indian Society of Pedodontics and Preventive Dentistry (ISPPD), Greater Noida, 2019-2021 - National
17	Dr Chandrashekar B R, Prof. & HOD, Dept. of Public Health Dentistry Winning first best scientific paper under faculty category Evaluating the effectiveness of a customized tobacco counseling training module (tctm) in enhancing knowledge, attitude, skills among undergraduate dental students - An educational intervention study - 25th IAPHD National Conference, Virtual, 19th to 21st November 2021 -National
18	Dr Chandrashekar B R, Prof. & HOD, Dept. of Public Health Dentistry Winning best scientific paper Evaluating the effectiveness of a customized tobacco counseling training module (tctm) in enhancing knowledge, attitude, skills among undergraduate dental students - An educational intervention study - 25th IAPHD National Conference, Virtual, 19th to 21st November 2021 - National
19	Dr Mahesh K P, Reader, Dept. of Oral Medicine & Radiology Winning best scientific paper Formulation and clinical study on mouth dissolving lornoxicam in management of post operative pain - 32nd National IAOMR Conference 2021, Dept. of Oral Medicine & Radiology, Mamata Dental College, Khammam, Telangana, 3rd to 5th December 2021 - National
20	Dr Sushma R, Dr Maurya M (Co-author), Dr Nagabhushana D, (Co-author), Dept. of Public Health Dentistry, Oral Medicine & Radiology Winning the Third prize (Clinician) Paper presentation Impact of complementary and alternative medicines on dentistry - IDRR Meet, Indian Dentist Research and Review and association of Interdisciplinary Dentistry India Chapter, 11th & 12th December 2021 - International

21	Dr Sowmya S, Dr Ravi M B (Co-author), Dr Anupama C (co-author), Lecturer Reader, Lecturer, Dept. of Prosthodontics and Crown & Bridge Winning the Second prize (Clinician) Paper presentation Antifungal effect of propolis procured from Sullia and Hubballi cities of Karnataka - IDRR Meet, Indian Dentist Research and Review and association of Interdisciplinary Dentistry India Chapter, 11th & 12th December 2021 - International
22	Dr Satish R, , Professor, Dept. of Oral & Maxillofacial Surgery Awarded Best scientific poster presentation (Faculty) Zygomaticomaxillary fracture fixation: A prospective comparative evaluation of two point vs. three point fixation - KIDS Webcon - Oral & Maxillofacial Surgery chapter, Kalinga Institute of Dental Sciences, KIIT Deemed to be University, Bhubaneswar, Odisha, 13th & 14th December 2021 - National
23	Dr Meenakshi S, Lecturer, Dept. of Prosthodontics and Crown & Bridge Industrial collaboration - Commercialization with Group Pharmaceuticals Dental polyherbal emergel - Group Pharmaceuticals Ltd.,, Group Pharmaceuticals Ltd., Bengaluru, 14th December 2021 - National
24	Dr Sowmya S, Lecturer, Dept. of Prosthodontics and Crown & Bridge In recognition of an outstanding contribution to the quality of the journal in reviewing - Journal of Pharmaceutical Research International, Journal of Pharmaceutical Research International, 27th December 2021 - National
25	Dr Annapoorna B M, Prof & HOD, Dept. of Conservative Dentistry and Endodontics Faculty of Yoga is pleased to award the Certificate of Yoga Teacher's Course (YTC) - Department of Yoga, , JSS AHER, December 2021 - Regional
26	Dr Anupama C, Lecturer, Dept. of Prosthodontics and Crown & Bridge In recognition of the appointment as an Editorial Board Member of International Journal of Dental Medicine (IJDM) - Science Publishing Group Inc.,, India, 14th January 2022 to 14th January 2024 - National
27	Dr Anitha S, Reader, Dept. of Periodontology Won Consolation prize for the scientific paper presentation in the Faculty category Vertical root fracture (VRF) - 2nd Virtual ISPRP National Conference, Vishnu Dental College, Bhimavaram, AP, 4th to 6th February 2022 - National
28	Dr Pratibha Shashikumar, Reader, Dept. of Periodontology Won the 2nd prize for the scientific paper presentation in the Faculty category Periodontal regeneration in Endoperio lesions - 2nd Virtual ISPRP National Conference, Vishnu Dental College, Bhimavaram, AP, 4th to 6th February 2022 - National
29	Dr Vidya G D, Reader, Dept. of Oral Pathology & Microbiology Consolation prize Collage making competition - Part of CONS ENDO Day 2022, Dept. of Conservative Dentistry and Endodontic, JSS Dental College & Hospital, Mysuru, 5th March 2022 -Regional
30	Dr Sushma R, Lecturer, Dept. of Public Health Dentistry Consolation prize Collage making competition - Part of CONS ENDO Day 2023, Dept. of Conservative Dentistry and Endodontic, JSS Dental College & Hospital, Mysuru, 5th March 2022 - Regional
31	Dr Anitha S, Reader, Dept. of Periodontology JSS FM Radio 91.2 MHz Sandarshana Maintainance of oral hygiene, prevalence of dental diseases, instructions to patients -Oral Health Day, JSS FM Radio 91.2 MHz, Mysuru, 20th March 2022 - National

32	Dr Chandrashekar B R, Prof. & HOD, Dept. of Public Health Dentistry Award for Research publications: 2019-20 - Vision Group on Science and Technology, Karnataka Science and Technology Promotion Society, Dept. of Electronics, Information Technology, Biotechnology and Science & Technology, Govt. of Karnataka, 2019-20 - National
33	Dr Ravindra S, Professor, Dept. of Periodontology Awarded 1st prize in paper presentation Lactobacillus fermentum MCC2760 and Bifidobacterium longum NCIM5671 for Oral health care - Two day National Workshop on Bifidobacterial probiotics: Supplementation through fermentation foods, Microbiology & Fermentation Technology Department, CSIR - Central Food Technological Research Institute, Mysuru, 24th & 25th March 2022 - National
34	Dr Meenakshi S, Lecturer, Dept. of Prosthodontics and Crown & Bridge First best e-poster presentation Formulation and evaluation of cyclodextrin nanosponges loaded with silk fibroin to treat oral mucosal bleeding - National Conference on Pharmaceutical Sciences 2022, Dept. of Pharmaceutics, JSS College of Pharmacy, Mysuru, 8th & 9th April 2022 - National
35	Dr Priyanka Nitin, Lecturer, Dept. of Oral Pathology & Microbiology Second best e-poster presentation - Development & commercialization of thermochromic handwash to combat the present COVID-19 pandemic - National Conference on Pharmaceutical Sciences 2022, Dept. of Pharmaceutics, JSS College of Pharmacy, Mysuru, 8th & 9th April 2022 - National
36	Dr Usha Hegde, Prof. & HOD, Dept. of Oral Pathology & Microbiology Successfully completed SPBM full marathon distance of 42.2 kms. She was a podium finisher securing 1st place in her category. By completing it in 3:52:33 hrs, she has finished the race in Boston qualifying timing. titled - , Bengaluru, 10th April 2022 - State
37	Dr Seema Deshmukh, Reader, Dept. of Pediatric and Preventive Dentistry Innovation of the year award - Little Smiles She has been recognized by the association for her patents and contributions in the field of pediatric dentistry which include medical devices, unique drug delivery devices and research in the area of craniofacial growth and development and management of cleft and palate affected infants - Yogi enterprises, Hotel Sea Princess, Juhu Mumbai, 30th April 2022 - National
38	Dr Swathi Kumareswar, Lecturer, Dept. of Forensic Odontology Best poster award and cash prize of Rs. 2000/- Forensic facial reconstruction - A case report - 8th Scientific Meeting of Indo-Pacific Academy of Forensic Odontology, Chandigarh University, Gharuan, Punjab (India), 25th to 27th May 2022 - National
39	Dr Meenakshi S, Lecturer, Dept. of Prosthodontics and Crown & Bridge Elderly care award, Ergonomic Design award Smart chair to detect slouching posture for dental professionals - MEDHA 2022, BETIC, IIT Bombay, Mumbai and JSS College of Pharmacy, JSS AHER, Mysuru, 14th May to 28th May 2022 - National
40	Dr Ravindra S, Prof & Principal and Dr Deepika P C , Prof & HOD, , Dept. of Periodontology International TV talk Periodontal diseases and diabetics interrelationships - Mysuru , 30th June 2022 - Regional

41	Dr Sheela Kumar G, Professor and Dr Avinash B S, Reader, Dept. of Periodontology International TV talk Periodontal health in Geriatric People - , Mysuru , 7th July 2022 - Regional
42	Dr Vidya Priyadarshini D S and Dr Aruna G, Lecturer, Dept. of Periodontology International TV talk Periodontal Abscesses Cuses and Management - , Mysuru , 14th July 2022 - Regional
43	Dr Anitha Subbappa and Dr Pratibha Shashikumar, Reader, Dept. of Periodontology International TV talk Importance of Laser in Periodontal Diseases - Mysuru , 14th July 2022 - Regional
44	Dr Vidya G D, Reader, Dept. of Oral Pathology & Microbiology Best poster Presentaton award Pitutory adenoma in 35 year old woman - case report - Virtual International Anatomy Conference on “Future of Anatomical Sciences Education” (FASE-2022), Sri Ramachandra Institute of Higher Education and Research, Chennai, 22nd - 23rd July 2022 - National
45	Dr Premalatha B R, Dr Sreeshyla H S, Dr Priyanka Nitin, Faculty, Dept. of Oral Pathology & Microbiology 3rd Best Scientific Poster Presentation Complementary and alternative dentistry - A holistic integration of antient and modern health systems -KIDS-WEBCON 2022 International Virtual Conference, KIIT Deemed to be University in association with University of Toronto and University of Genoa, 28th-30th July 2022 - International
46	Dr Premalatha B R, Reader, Dept. of Oral Pathology & Microbiology Best Scientific Paper Presentation Award Assessment of various stressors affecting the undergraduate Dental students - A cross sectional study - KIDS-WEBCON 2022 International Virtual Conference, KIIT Deemed to be University in association with University of Toronto and University of Genoa, 28th-30th July 2022 - International
47	Dr Sreeshyla H S, Lecturer, Dept. of Oral Pathology & Microbiology 3rd Best Scientific Paper Presentation Award Assessment of oral cancer awareness among general public - A pilot study - KIDS-WEBCON 2022 International Virtual Conference, KIIT Deemed to be University in association with University of Toronto and University of Genoa, 28th-30th July 2022 - International
48	Dr Pratibha Shashikumar, Reader, Dept. of Periodontology 2nd Best Scientific Paper Presentation Award Comparison of modified coronally advanced flap with periosteal pedicle graft in the treatment of multiple adjacent gingival resession defects - A Randomized clinical trial - KIDS-WEBCON 2022 International Virtual Conference, KIIT Deemed to be University in association with University of Toronto and University of Genoa, 28th-30th July 2022 - International
49	Dr Annapoorna B M, Prof & HOD, Dept. of Conservative Dentistry and Endodontics awarded Masters Fellowship in Micro - Endodontics (MFM) in the branch of Endodontics - Saveetha Dental College, Bangalore, July 2022 - Regional

## **INSTITUTION INNOVATION CELL**

Institution has innovation and ideation cell to nurture research potential of the faculty and encourage scholars/students for their research and entrepreneurial skills. Through the innovation cell institution has signed MOU's and material transfer agreements to carry out potential research works for mutual benefit. Incubation cell has required infrastructure facility for incubatee to realise the idea into tangible product.

Group of potential students with a mentor participated in the hackathon 2019 and were short listed in top 2 potential idea. Also, three groups of students with their mentor are participated in drug discovery hackathon 2020 and undergoing training imparted by MHRD. College also organized. College also conducted National Level Medical Device Hackathon (MEDHA) 2022 from 14<sup>th</sup> and 21<sup>st</sup> May 2022 in association with IIT Bombay, Mumbai.

## **NATIONAL LEVEL MEDICAL DEVICE HACKATHON (MEDHA) 2022**

**Event Name:** National Level Medical Device Hackathon (MEDHA) 2022 Stage-I

**Event Date:** 14<sup>th</sup> and 21<sup>st</sup> May 2022

**Event Venue:** Smart Classroom, JSS Dental College, JSS AHER, Mysuru

**Mentored By:** Biomedical Engineering and Technology Innovation Centre (BETIC), IIT Bombay (IITB), Mumbai

**Hosted/Organised By:** JSS College of Pharmacy (JSSCP), JSS AHER, Mysuru in collaboration with SPARKLE CINE (Centre for Innovation and Entrepreneurship), JSS AHER, Mysuru

Medical devices are critical for a better healthcare system. Indigenous development of novel, suitable, reliable, and affordable devices lead to social impact as well as high-value jobs. National Level Medical Device Hackathon (MEDHA) 2022 was organized by JSS Academy of Higher Education and Research (JSS AHER), Mysuru, under the mentorship of Biomedical Engineering and Technology Innovation Centre (BETIC), IIT Bombay (IITB), Mumbai. MEDHA 2022 Stage-I was held on 14<sup>th</sup> & 21<sup>st</sup> May 2022 at JSS College of Pharmacy (JSSCP), JSS AHER, Mysuru in collaboration with SPARKLE CINE (Centre for Innovation and Entrepreneurship), Mysuru. The event was hosted in association with JSS Medical College (JSSMC) & JSS Hospital, JSS Dental College & Hospital (JSSDC), School of Life Sciences, JSS Science and Technology University, New Age Incubation Network (NAIN), and Sri Jayachamarajendra College of Engineering-Science and Technology Entrepreneurs Park (SJCE-STEP), Mysuru.

The objective of MEDHA 2022 was to provide a unique platform to multidisciplinary ignited minds of young and dynamic students for brainstorming, collaborating, designing and proposing solutions for unmet clinical needs via Medical Devices innovations. MEDHA 2022 has brought together Students, Scientists, Researchers, Designers, Medical Device Innovators, End-users, and Industry Personnel and Policy Makers from several localities and professional backgrounds to exchange ideas and discuss key issues related to Medical Devices. Total 5 teams were shortlisted for Stage-I presentations out of which one was declared as Winner based on novelty, potential impact and value propositions. Team led by Dr. Shwethashree M had presented a clinical solution entitled “Student Pocket Mobile (SPM) otoscope- A medical-technological device development”; which was declared as Winner by the Jury Panel and rewarded with cash prize, certificates of achievement and trophies. The winner team along with 2 runner-up teams got the opportunity to pitch their ideas to eminent jury panels during the Stage-II event on 28<sup>th</sup> May 2022 at IIT Bombay, Mumbai. It is worth mentioning that out of the teams who participated for MEDHA Stage-II at IIT Bombay, 2 teams have been awarded for their excellent propositions and presented clinical solutions. The BETIC team from IIT Bombay has promised to guide, help and support for working and translating these ideas for the benefit of society.

Event organizers Prof. T.M. Pramod Kumar, Prof. G.V. Pujar, Dr. Riyaz Ali Osmani and team from JSS College of Pharmacy, JSS AHER and Prof. S. Prashant from SPARKLE CINE, JSS AHER are thankful to the leadership and management of JSS Mahavidyapeetha and JSS AHER for their continued guidance, support and encouragement in organising and making this event a grand success. We look forward to host four major events with BETIC IIT Bombay every year- Medical Device Hackathon (MEDHA), Medical Device Innovation Camp (MEDIC), Medical Device Expo (MEDEX) and Medical Device Innovation Symposium (MEDIS). The events will enable curating clinical needs, training potential innovators, expanding the collaboration network and sharing the best practices among partners.



# Medical Device Hackathon (MEDHA) 2022 Stage-I 14<sup>th</sup> & 21<sup>st</sup> May 2022

## ❖ Group Photo of Teams-



## ❖ MEDHA 2022 Stage-I Selective Snaps-





**MEDHA 2022 Stage-I Winner Team-**



**MEDHA 2022 Stage-I Group Photo-**



**Medical Device Hackathon (MEDHA) 2022 Stage-II 28<sup>th</sup> May 2022**

**Participant Teams Details:**

**Team 1-**

<b>Team</b>	Team 1 ( <b>Green Cap Bearers</b> )
<b>Clinical Problem/Project Chosen</b>	Sensor based chair for detecting slouching posture in geriatric patients Smart chair- JARVIS
<b>Participants</b>	Dr. Meenakshi S (Lead) Mr. Sanjay S Tippannavar Mr. Raghavendra G Mr. Sagar Gurusurthy

**Award Ceremony**
**MEDHA 2022**

**MEDHA2022**  
*Elderly Care Award*

presented to

*Dr. Meenakshi S, Mr. Sanjay Tippannavar, Mr. Raghavendra G, Mr. Sagar Guruswarthy*

for demonstrating self-less team-work & solving problem titled 'Smart Chair to Detect Slouching Posture' during the **Medical Device Hackathon (MEDHA)** held virtually from 14<sup>th</sup> May to 28<sup>th</sup> May 2022 by BETIC, IIT Bombay and Partner Institutes.

**Dr. Rupesh Ghyar**  
 Senior Executive Officer  
 BETIC, IIT Bombay

**Prof. B. Ravi**  
 Institute Chair Professor  
 IIT Bombay, Mumbai

Meenakshi S

Sanjay T

Raghavendra G

Sagar G

JSS Team 1 | Problem Statement: Smart Chair to Detect Slouching Posture (Smart chair JARVIS)
Talking: Bharti Dhaundiyal | BETIC

### Team 3-

<b>Team</b>	Team 3 ( <b>Blue Cap Bearers</b> )
<b>Clinical Problem/Project Chosen</b>	Student Pocket Mobile (SPM) otoscope- A medical-technological device development
<b>Participants</b>	Dr. Shwethashree M (Lead) Mr. Harish G. Kulkarni Mr. Amith H. Mr. Pyda Venkata Harsha Vardhan

**Award Ceremony**

**MEDHA2022**  
*Compact Design Award*

presented to

*Dr. Shwethashree M, Mr. Harish Kulkarni, Mr. Amith H, Mr. PV. Harshvardhan*

for demonstrating self-less team-work & solving problem titled 'Student Pocket Mobile Otoposcope' during the **Medical Device Hackathon (MEDHA)** held virtually from 14<sup>th</sup> May to 28<sup>th</sup> May 2022 by BETIC, IIT Bombay and Partner Institutes.

**Dr. Rupesh Ghyar**  
 Senior Executive Officer  
 BETIC, IIT Bombay

**Prof. B. Ravi**  
 Institute Chair Professor  
 IIT Bombay, Mumbai

Shwethashree M

Harish K

Amith H

PV Harshvardhan

JSS Team 3 | Problem Statement: Student Pocket Mobile (SPM) Otoposcope

Unmute Start Video Participants Chat Share Screen Record Reactions Apps Leave

## MEDHA Press/Media Coverage:

**ಕನ್ನಡಚಕ್ರ**  
ಸೋಮವಾರ 16.5.2022

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### ಜೆಎಸ್‌ಎಸ್ ಉನ್ನತ ಶಿಕ್ಷಣ ಅಕಾಡೆಮಿಯಿಂದ ಡಿವೈಸ್ ಹ್ಯಾಕಥಾನ್

• **ಕನ್ನಡಚಕ್ರ ವಾರ್ತೆ** ಮೈಸೂರು  
ಬಾಂಬೆಯ ಐಐಟಿ ಮಾರ್ಗದರ್ಶನದಲ್ಲಿ ನಗರದ ಜೆಎಸ್‌ಎಸ್ ಉನ್ನತ ಶಿಕ್ಷಣ ಮತ್ತು ಸಂಶೋಧನಾ ಅಕಾಡೆಮಿಯಲ್ಲಿ ಮೆಡಿಕಲ್ ಡಿವೈಸ್ ಹ್ಯಾಕಥಾನ್ 2022 (ಮೇಧಾ) ಆಯೋಜಿಸಲಾಗಿತ್ತು. ಜೆಎಸ್‌ಎಸ್ ಉನ್ನತ ಶಿಕ್ಷಣ ಅಕಾಡೆಮಿ, ಬಯೋಮೆಡಿಕಲ್ ಎಂಜಿನಿಯರಿಂಗ್ ಮತ್ತು ಟೆಕ್ನಾಲಜಿ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಸೆಂಟರ್ ಮತ್ತು ಮುಂಬೈನ ಐಐಟಿ

ಸಹಯೋಗದಲ್ಲಿ ನಡೆಯಿತು. ಇದು ವೈದ್ಯಕೀಯ ಸಾಧನದ ಅಭಿವೃದ್ಧಿ ಮತ್ತು ಅನ್ವೇಷಣೆ ಅಂತರ್ ಶಿಕ್ಷಣ ತಂಡಗಳನ್ನು ಒಟ್ಟುಗೂಡಿಸುವ ಉದ್ದೇಶ ಹೊಂದಿತ್ತು. ಮೇಧಾ 2022 ಮೊದಲ ಕಾರ್ಯಕ್ರಮವು ಜೆಎಸ್‌ಎಸ್ ಫಾರ್ಮಿಸಿ ಸಹಯೋಗದಲ್ಲಿ ನಡೆಯಿತು. ಇದು ಯುವ ಮತ್ತು ಕ್ರಿಯಾತ್ಮಕ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ವಿಭಿನ್ನ ವೇದಿಕೆಯಾಗಿದ್ದು, ನಾವಿನ್ಯತೆ, ಸಹಯೋಗ, ವಿಸ್ವಾಸ ಹಾಗೂ ವೈದ್ಯಕೀಯ ಸಾಧನಗಳ ಕುರಿತು

ಹಾಗೂ ವೈದ್ಯಕೀಯ ಅಗತ್ಯಗಳಿಗೆ ಪರಿಹಾರ ಪ್ರಸ್ತಾಪಿಸಲಾಯಿತು. ಮೇಧಾವು ವಿಶಾಲ ದೃಷ್ಟಿಕೋನ ಹೊಂದಿದ್ದು, ವಿದ್ಯಾರ್ಥಿಗಳು, ವಿಜ್ಞಾನಿಗಳು, ಸಂಶೋಧಕರು, ವಿಸ್ವಾಸಕರು, ವೈದ್ಯಕೀಯ ಸಾಧನದ ಅಭಿವೃದ್ಧಿಕರು, ಅಂತಿಮ ಬಳಕೆದಾರರು ಹಾಗೂ ಹಲವಾರು ಪ್ರದೇಶಗಳ ವೃತ್ತಿಪರ ಉದ್ಯಮಿ ಸಿಬ್ಬಂದಿ, ನೀತಿ ತಯಾರಕರ ವಿಚಾರ ವಿನಿಮಯಕ್ಕೆ ವೇದಿಕೆ ಆಯಿತು.

**16.5.2022 ಸೋಮವಾರ**

**\*LDR-LED Sensor based Disintegration Test Apparatus Inventors: Dr TM Pramod Kumar, Suresh Gupta Date of Grant: 09/09/2021 Granted No. 376848**

## **INNIVATION AT JSSAHER**

### **MUSUKU FACEMASK**

Musuku facemask is a first product developed and commercialized by a JSS Academy of Higher Education & Research faculty driven start-up company FYTOMED LIFE PVT. LTD., which is incubated at Sparkle Cine, Incubation Centre, JSS AHER, Mysuru. Dr. Kiran Kumar M N, Assistant Professor, Dept. of Biotechnology & Bioinformatics, JSS AHER, Mysuru is the Founder member and the Director of Fytomed Life Pvt. Ltd. start-up company.

Innovation: Musuku is an herbal facemask coated with safe antimicrobial phytochemicals of edible plants. The innovation involves the technology to imprint the phytochemicals on the fabric material.

More than 15,000 musuku masks were sold.

Features include:

1. Inner layer and outer layer coated with active ingredients like Curcumin and Quercetin
2. Besides protection from airborne dust and particulate matter, this facemask inactivates/ kills airborne bacteria and virus that comes in contact.
3. Protects the wearer as well as prevents spread of germs from infected person

**FYTOMED LIFE** **SPARKLE CINE**  
TECHNOLOGY DEVELOPED BY  
JSS ACADEMY OF HIGHER EDUCATION & RESEARCH, MYSURU

**MUSUKU**  
Upgraded protection from dreaded infections

**GERMICIDAL FABRIC  
FACE MASK**  
Inactivates airborne bacteria  
and viruses upon contact

Coated with safe natural  
phytochemical of edible plants

**FEATURES**

- Active ingredient - Curcuminoids in maroon color musuku, extracted from turmeric (*Curcuma longa*)
- Active ingredient - Quercetin in yellow color musuku, extracted from *Saphora japonica* L. flower; commonly present in onion, apple & cilantro
- Inner and outer fabric material is made up of cellulose fibers (poly viscose)
- Protects from germs, dust and allergens
- Antimicrobial activity up to ten washes
- Patent pending

Disclaimer:  
Musuku is not for treatment of respiratory infections;  
only prevents transmission of germs

**MUSUKU**  
Upgraded protection from dreaded infections

**INSTRUCTIONS FOR CARE**

- ♻️ Wash & Reuse  
Do: Fabric (not elastic) in boiling water for 5 min & dry in shade
- 🚫 Do not throw
- 🚫 Do not wash
- 🚫 Do not bleach  
(Color may fade upon washing, however mask does not lose its bio-activity)

Musuku facemask developed by JSS AHER

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