



RESEARCH NEWSLETTER

Issue 16



SSIP: IGNITING CREATIVE SOLUTIONS



SSIP SUPPORT SYSTEM



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MESSAGE FROM DIRECTOR OF RESEARCH



Dear Colleagues and Students,

I hope this message finds you well and in good spirits. I am thrilled to share some exciting news that underscores our commitment to advancing research and innovation at Sumandeeep Vidyapeeth. We have been awarded the prestigious SSIP 2.0 grant by the Government of Gujarat, amounting to Rs. 20 lakhs. This significant grant is a testament to our dedication to fostering a vibrant research ecosystem and nurturing groundbreaking startups.

This funding provides us with a unique opportunity to push the boundaries of knowledge and develop innovative solutions that can make a tangible impact on society. I urge each one of you to take this as a motivation to delve deeper into your research interests, think creatively, and strive for excellence. Our collective efforts in research and innovation are crucial in positioning Sumandeeep Vidyapeeth as a leading institution known for its contributions to scientific advancements and entrepreneurial success.

Let us harness this grant to its fullest potential, working collaboratively across disciplines to transform ideas into reality. Whether you are an experienced researcher or a budding innovator, your input is invaluable. Let us challenge ourselves to explore new horizons, take risks, and turn our vision of a better future into reality.

Remember, every great achievement starts with a single step fueled by curiosity and determination. Together, let us make Sumandeeep Vidyapeeth a beacon of research excellence and a hub for innovative startups.

Warm regards

Dr. A. K. Seth,
Director of Research, SVDU



PREVENTIVE CARDIOLOGY

DR. SURESH KUMAR RATHI

DEPUTY DIRECTOR - RESEARCH

DEPARTMENT OF CENTRAL RESEARCH AND INNOVATION, SVDU

For many people in the rural areas or remote regions of the India, health facilities are inaccessible and beyond means. The cost of staying alive pushes one quarter of Indians below poverty line. Those who require hospitalization are perennially repaying debts. In fact, rural indebtedness caused by illness is far greater than that caused by crop failure. Developing and maintaining sustainable healthcare delivery for people in the poorest countries is indeed a challenge. There is an urgent need to provide access to affordable healthcare in a sustainable manner. This should be based on an underlying strategy of preventive rather than curative medical care if we are to improve India's health indicators.

There exists a sharp disconnect between urban and rural healthcare in India. If we continue to ignore this deepening divide, we run the risk of destabilizing our socio-economic fabric. The time has come to provide basic healthcare to our 1.4 billion people accessibility and affordability need to be the integral to this mission .

Decline in Tuberculosis (TB) prevalence started before the historic advent of anti-TB drugs and BCG vaccine. The factors which are responsible for low prevalence and death rates are increased literacy, Public Health measures (like hygiene, water and sanitation) and good sanitation condition, taking balanced diet.

Diabetes and Coronary Artery diseases are two of the Captains of the Battalions of Death. Hypertension (High Blood Pressure) is a silent killer. Indians have genetic predisposition to developing cardiovascular ailments. Every hour cardiac ailments rack up more than 100 fatalities across India and the age at which people are diagnosed with cardiac ailments is decreasing. Earlier people with the age of 40 would be considered at risk. Now people as young as 30 can also been seen suffering from cardiac ailments.

Perhaps that is why the need for preventive cardiology is allthe more significant today. It means, physicians advise minor changes in lifestyle to counter future cardiac ailments even if you think your tickers are in top form now.

How program (Preventive Cardiology) works?

- A thorough check-up of the person will be done
- Risk factors will be identified
- Stress test and ECG will be carried out

This constitutes the cardiac profile of the persons.

Few preventive tips based on cardiac profile:

- Accordingly certain exercises are recommended. Usually exercise or treadmill or bicycle is recommended. Regular brisk walking for about 30-45 minutes or swimming / cycling can also be incorporated as an alternative exercise program.
- Use relaxation techniques like Yoga, meditation, pranayama
- Diet is usually low in fat ((Saturated fats) and includes lot of green vegetables and fruits.
- Get rid of extra kilos. Cut down on calories. The more overweight you are, the more susceptible you are to high BP.
- Add more fruits, vegetables and low fat dairy products to your diet.
- Eat food high in calcium, magnesium and potassium like banana, raisins, potato and dates.
- Reduce your salt (Sodium) intake as it is linked to high BP. Avoid table salt.
- Stop smoking: this will keep your BP in control and will also diminish your risk of cardiovascular diseases and cancer.
- Curb your alcohol consumption as excessive alcohol raises your BP.

In short, these preventive tips for preventive cardiology may be helpful to rural population especially unreached population.

SSIP 2.0

»»» AN INTRODUCTION:




SSIP, or the Student Startup and Innovation Policy, is a transformative initiative aimed at fostering entrepreneurial spirit and innovation among students. It empowers young minds by providing resources, mentorship, and funding to turn innovative ideas into viable startups. Through structured programs and collaborations with industry, SSIP cultivates a culture of creativity and problem-solving, equipping students with practical skills and entrepreneurial mindset crucial for the future. Sumandeep Vidyapeeth Deemed to be University established 'Start-up & Innovation and incubation Centre' in the year 2016. The main aim of this center is to establish an on-campus 'Start-up & Innovation Centre' to the creative ideas and projects from faculty, PG and UG students that would be instrumental in the benefit of the society and in the economic growth of the nation




SUMANDEEP VIDYAPEETH INCUBATION & INNOVATION CENTRE

Sumandeep Vidyapeeth Incubation and Innovation center is established aiming to facilitate and encourage innovative technology based start – ups that have an application and/or impact in the medical and paramedical sector. The center would support the start-ups by providing necessary guidance, technical support, infrastructure, access to investors, networking, and facilitating a host of other resources that may be required for the start – up to survive and scale. SVIIC invites innovative ideas in the field of Medical, Dental, paramedical (Pharmacy, Physiotherapy, Nursing, health management, and ICT enabled health services) and Biotechnology which can be converted to innovative products or services for the benefit of the community. The center will provide full support to the incubatee with regard to infrastructure, mentorship, and technological support for the development of Prototype or minimum viable product (MVP)/ Proof of concept (POC) and also assistance for marketing strategies and funds requirement

SSIP 2.0 : VITAL FACTS

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PURPOSE

 - Promotion of Entrepreneurship
 - Entrepreneurship management
 - Entrepreneurship guidance:
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ELIGIBILITY CRITERIA

 - Any individual who is studying and completed graduation from Sumandeep Vidyapeeth deemed to be University.
 - Any individual or a team of faculty member/non teaching members of any of the constituent institute of Sumandeep Vidyapeeth.
 - Alumni will be eligible for the Startups within 5 years of graduation.
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TYPES OF STARTUPS

 - Group of faculty member(s)/ non teaching members and graduating post graduating students / Alumni of the University
 - Faculty member(s) of the University, Joint group of graduating / graduating students and Alumni of the University.
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APPLICATION PROCESS

 - The applicants have to register compulsorily through the google form and submit the business proposal <https://forms.gle/z8XATW44P6FUk%5s>
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EVALUATION CRITERIA

 - Strength of the product/service idea in terms of its technology content, innovation, timeliness and market potential,
 - IP already generated and the potential of the idea for IP creation,
 - Extent of involvement of SV incubation centre Mentors, employees and students,
 - Strength of the incubatees team,
 - Funds requirement and viability of raising finance,
 - Break-even period
 - Commercial potential, demand and requirement in India.
 - Scalability

The suitability of the proposal will be evaluated by expert committee regarding its potential for incubation. Detailed scrutiny including innovativeness, feasibility, market-demand in future, financial and technical aspects of the proposal shall then be carried out by the expert members for evaluation of the proposal.

An insight into the Student Start-up and Innovation Policy (SSIP 2.0) & SumandeepVidyapeeth Incubation and Innovation Centre (SVIIC)



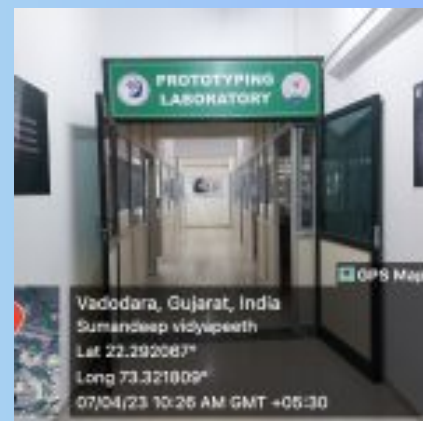
Dr. Ghanshyam Parmar
Professor and SSIP Coordinator
Department of Pharmacy, SVDU

The Student Start-up and Innovation Policy (SSIP 2.0) by the Gujarat Knowledge Society is a robust initiative by the Gujarat Government, designed to foster innovation and entrepreneurship among students. Building on its predecessor, SSIP 2.0 aims to create a supportive ecosystem integrating academic institutions, industries, and government to help students transform their ideas into viable start-ups.

The policy provides multi-faceted support, including funding for ideation, prototyping, and commercialization, and promotes the establishment of Innovation and Incubation Centres in educational institutions. Emphasizing inclusivity, SSIP 2.0 ensures equal opportunities for students from diverse backgrounds and disciplines and encourages collaborations with national and international entities to incorporate global best practices. The eligibility criteria include students and recent graduates from recognized institutions in Gujarat, with specific provisions for early-stage start-ups demonstrating potential for commercialization. Financial support under SSIP 2.0 includes up to ₹2 lakhs for Proof of Concept (POC), up to ₹10 lakhs for prototype development, up to ₹30 lakhs for setting up or enhancing incubation centres, and up to ₹25 lakhs for scaling start-ups. Additional support covers mentorship, training, and Intellectual Property Rights (IPR) assistance.

SumandeepVidyapeeth Incubation and Innovation Centre (SVIIC) in Vadodara exemplifies the impact of such initiatives. SVIIC offers comprehensive support, including state-of-the-art infrastructure and funding opportunities, with a special focus on healthcare innovations. By fostering academic-industry collaborations and building a vibrant community, SVIIC nurtures early-stage start-ups and promotes sustainable growth. Both SSIP 2.0 and SVIIC play pivotal roles in driving entrepreneurial spirit and economic development in Gujarat.

FROM THE GALLERY OF SSVIIC



Glimpses of the Laboratory Infrastructure



Visit of Incubatees and the Team of GTU Innovation and Startup Center, Vadodara