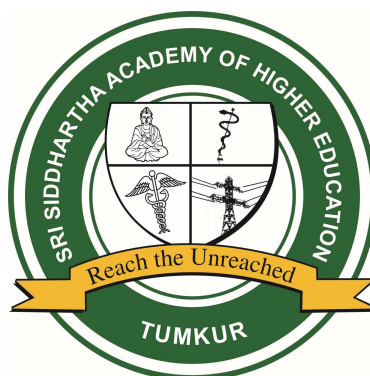# Research & Development Cell

2023

*(Approved on 24th Academic Council meeting held on 01/08/2022
Vide Agenda No. SSAHE/AC/XXIV-34/2022)*

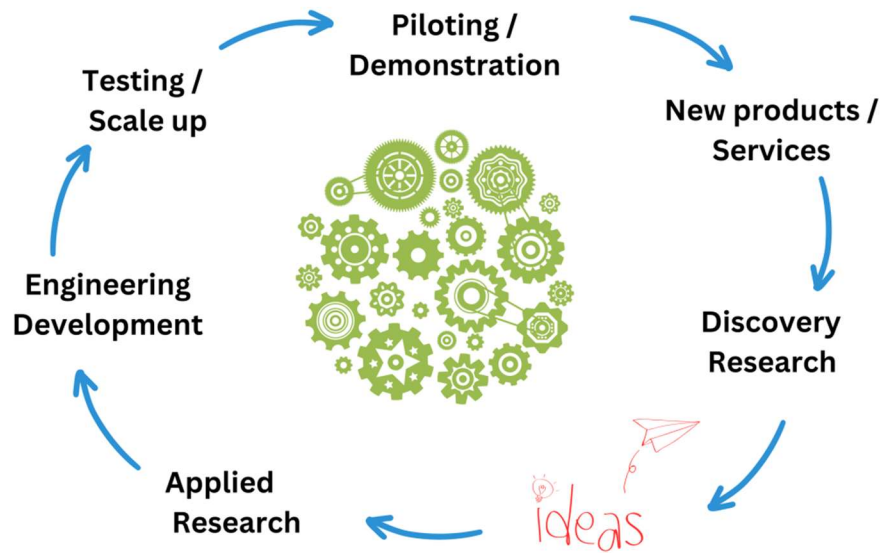# Sri Siddhartha
Academy of Higher Education

(Deemed to be University u/s 3 of the UGC Act, 1956)
Accredited 'A+' Grade by NAAC

**Established under Section 3 of the UGC Act, 1956
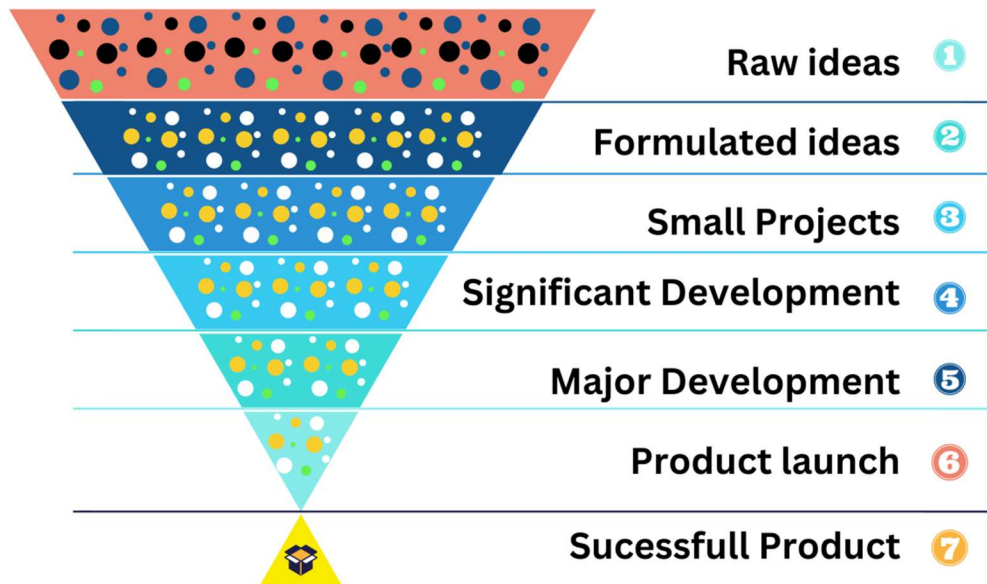MHRD, GOI No. F.9-31/2006-U.3 (A) Dtd. 30th May 2008**

Agalakote, B.H. Road, Tumkur – 572107, Karnataka, India

Components of Innovation Process

Piloting / Demonstration

Testing / Scale up

New products / Services

Engineering Development

Discovery Research

Applied Research

ideas

RESEARCH AND DEVELOPMENT

Innovation Funnel

1. Raw ideas
2. Formulated ideas
3. Small Projects
4. Significant Development
5. Major Development
6. Product launch
7. Sucessfull Product

The Constituent Colleges

On-Campus Institutions	Off-Campus Institutions

Sri Siddhartha Medical College
Agalakote, B.H. Road,
Tumkur – 572107
Karnataka, INDIA

Ph. No. : 8105042755

Website : ssmctumkur.org
E-Mail : info@ssmctumkur.org

Sri Siddhartha Institute of Medical
Sciences & Research Centre,
T-Begur Village,
Nelamangala Taluk,
Bangalore Rural District – 562123

Ph. No. : 080 – 27733212

Website : ssimrc.in
E-Mail : info@ssimrc.in

Recognized by National Medical Commission (NMC)

Sri Siddhartha Dental College
Agalakote, B.H.Road
Tumkur – 572107
Karnataka, INDIA

Ph. No. : 9828268896

Website : ssdctumkur.org
E-mail : ssdctumkur@gmail.com

Sri Siddhartha Institute of Technology
Maralur , Kunigal Road,
Tumkur- 572105
Karnataka, India.

Ph. No. : 0816 – 2200314, 2201073,
Fax : 2200270

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

Recognized by Dental Council of India (DCI)	Approved by AICTE, Accredited by NBA, New Delhi

PREAMBLE

Rapid growth in scientific knowledge is an indication of quest for discovery and has an impact on economic and societal development. Science, technology and innovation are often initiated at the University research environment and it is also the mission of Sri Siddhartha Academy of Higher Education. Research and Developmental activities creates and disseminates new knowledge in range of fields, promotes innovation and these will motivate better learning and teaching among faculty and students of our University as these are often incorporated in the courses. Research is the foundation of knowledge that brings new energy, builds state of the art facilities, promotes research publications, develops collaborations and becomes part of active community that shares the mission objectives. Taking these into considerations the following Research Policy of Sri Siddhartha Academy of Higher Education is implemented.

About The Academy

Sri Siddhartha Academy of Higher Education was declared as Deemed to be University under Section 3 of the UGC Act, 1956 was established by notification vide MHRD GOI No. F.9-31/2006-U.3 (A) dated: 30/05/2008 of Govt. of India. The University started functioning w.e.f. June 2008 with Sri Siddhartha Medical College and Sri Siddhartha Dental College as constituent colleges. Further as per Govt. of India notification vide No. F.9-31/2006-U.3(A) Dtd. 16/12/2008, the Sri Siddhartha Institute of Technology was included as a constituent college of Sri Siddhartha Academy of Higher Education. The Academy is established to achieve academic excellence and to give thrust to the research activities.

Vision

> To put in place a robust mechanism for developing and strengthening the research ecosystem within HEIs, aligned with the provisions of NEP-2020.

Mission

- To create a conducive environment for enhanced research productivity.

- To encourage collaboration across industry, government, community-based organizations, and agencies at the local, national, and international levels.

- To facilitate greater access to research through mobilization of resources and funding.

Objectives

1. To create an organizational structure with role-based functions of Research and Development Cell (RDC), formulate Research Policy for the HEIs, identify thrust areas of research, and form related cluster groups/ frontline teams/consortia of researchers.

2. To create enabling provisions in Research Policies for recruitment of research personnel, procurement of equipment, and financial management with adequate autonomy to the Principal Investigator(s) and disseminate research outcomes to stakeholders and the public at large.

3. To establish a special purpose vehicle to promote researchers and innovators, identify potential collaborators from industry, research organizations, academic institutions & other stakeholders for cooperation and synergistic partnerships.

4. To act as a liaison between researchers & relevant research funding agencies, extend guidance in preparation & submission of project proposals and post-sanctioning of the grants to oversee adherence to timelines.

5. To have better coordination among other cells/centers dealing with University-Industry Inter Linkage, Incubation, Innovation and Entrepreneurship Development and Intellectual Property Rights (IPR).

6. To develop an Institutional Research Information System for sharing the status of ongoing/ completed research projects/Programmes, expertise & resources, etc., making effective use of Information & Communication Technology (ICT) for preparing the database of in-house experts to provide industrial consultancy and services.

7. To engage & utilize the services of superannuated active faculty/scientists in research capacity building of talented young minds and promote mobility of researchers across institutions and R&D Labs.

8. To serve as nodal center for ideation and conceptualization of research topics/themes by organizing workshops and training programs and ensuring the integrity and ethical practices in research activities including clearance of bioethical committee wherever required

Functions

From the Directions of the UGC, SSAHE has taken initiative to establish a RDC with the mandate for promoting quality research that contributes meaningfully towards the goal of a self-reliant India ("Atma-Nirbhar Bharat"), aligned with the provisions of NEP-2020. The RDC would help creating a research ecosystem for reliable, impactful, and sustained research output. The essential elements of such an ecosystem, viz., generation of knowledge and facilitation of research, innovation and technology development for industrial & societal benefits, are addressed by human resource (researcher & faculty), intellectual capital (knowledge & skills), governance (regulation & policies) and financial resources (funding & grants).

Research Programes / Projects

Sri Siddhartha Academy of Higher Education through its 47 Departments along with the 4 constituent colleges offers Ph.D Programmes. For their programs UGC Guidelines as to Ph.D Research Programmes including Academic Integrity, Publication Quality and Research Ethics are followed, with dynamic enhancements.

Funded Research Projects with support from UGC, DST, DAE, DBT DOD, ISRO, ICMR, ICSSR and few others schemes are carried out by members of the faculty.

Research Advisory Council (RAC)

The University Grants Commission (UGC) has directed HEIs to establish Research Advisory Council (RAC) with guidelines for establishing Research & Development Cell (RDC) with a suggested organogram and a list of activities. The RAC and RDC are established with the approval of the Academic Council of the University. Besides established RDC, Sri Siddhartha Academy of Higher Education brings under the umbrella body the RAC all entities committed to the cause of Research and Development. The Vice-Chancellor shall chair the RAC as suggested by the UGC.

Research and Development Cell (RDC)

In a world of competitive continuous development, contribution of HEIs to the scientific inventions, Economic development and societal uplift is vital. This purpose is fulfilled easily as the UGC has pointed out stressing the need for integration of Research, Innovation and Technology.

Future-centric, Feature-filled, Skill-hued, Eco-friendly and Resource-economizing Process Innovation, Product Design and Service Novelty, all culminating in superior entrepreneurial class and might, leading to holistic/fast/self-sustaining Economic Development and Societal Uplift, are the need of the hour to make India, a global leader by 2047.

In emerging educational paradigmatic context, establishing a Research & Development Cell (RDC) in every university is well suggested by University Grants Commission to ensure concerted, continuous, collaborative, creative and conducive efforts to make India among the top-ones in the comity of nations as to innovation quotient, quality and quantum. Establishing a robust mechanism for developing and strengthening the research ecosystem is enabled through the Research and Development Cell (RDC). In fact, several entities exist in the University that validly address each of the several shades of ingenuity, invention, innovation and the like functioning in a distributed way, with incubation, start-up and entrepreneurship taken for granted. To ensure connect between university ingenuity / invention / innovation and the much aspired incubation / start-up / entrepreneurship, SSAHE is pleased to establish the RDC (Research and Development Cell), headed by a Director-Convener, under its RAC (Research Advisory Council).

The Organogram of the RDC is given under. The RDC's top priorities are, enhanced research productivity, collective efforts through collaboration with institutions-home / global, with business-industry/trade/banks, with governments, with governments, with community organization-NGOs/SHGs, and with development agencies at the location / nation / global spheres.

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│  Research Advisory Council (RAC) (Chaired by Vice-Chancellor) │
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                   ┌──────────────────┐
                   │   Director, RDC   │
                   │    (Convener)     │
                   └──────────────────┘
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Committee-1	Committee-2	Committee-3	Committee-4	Committee-5
Finance and Infrastructure	Research Program, Policy Development	Collaboration and Community	Product Development, Monitoring, and Commercialization	IPR, Legal & Ethical Matters

CHAIRMAN
Research Advisory Council

DIRECTOR-CONVENER
Research & Development Cell

Dr. K.B. Lingegowda
Vice-Chancellor

Dr. S. Suhas
Professor
Department Oral Medicine & Radiology

Research Advisory Council (RAC) – Research and Development Cell (RDC) shall strive for:

i.   Achieving our Holistic Vision-Mission-objectives

ii.   Result oriented Research Information Management System.

iii.   Building a resilient Research Eco-system by drafting the services of exceptionally talented superannuated faculty / scientists.

iv.   Adhering to global / national / state mission like Sustainable Development Goals (SDGs), Self-reliance, Skill-up capacity building , etc.

v.   Outcome-centric Centres of Excellence, Clusters / Consortia for Research Clusters.

vi.   Ensuring shared infrastructure for providing supporting and getting support.

vii.   Productive incentive schemes for Research and Research Career.

viii.   Performing Technology Development and Business-centered facility.

ix.   Resilient Research & Development Corpus thro contribution from CSR / Alumni / Internal Sources.

x.   Ever upholding Research and Publication Integrity and Ethics.

xi.   Capacity Building thro UGC-HRDC initiated schemes.

xii.   Continuous Monitoring Mechanism for ensuring superior performance on every indicator of achievement, in terms of Quality, Consistency, Collaboration, Quality and other aspects of excellence.

xiii.   Oversee activities of the research committees.

xiv.   Prescribe guidelines for fixing the areas of specializations for each department/faculty/Centre.

xv.   Lay down guidelines for the conduct of inter-disciplinary research programmes in the departments/faculty.

xvi.   Suggest the priority areas of research in the departments/faculty particularly with reference to the role and responsibility of the Institute taking into account the facilities available in the Institute, the major thrust areas accepted for the concerned department/faculty and expertise of the faculty members.

Committee-1: Finance and Infrastructure shall strive for:

i. Identify, channelize and promote investors for the research and development activities of the departments.

ii. To develop clusters of university department researchers who will work in the high value inter- and trans-disciplinary research areas and to promote national and international funding.

iii. To mobilize the resources of the university departments and to develop corpus/seed funds from various funding agencies.

iv. Support development of research proposals from the university teachers for the external funding.

v. Facilitating timely auditing and submission of utilization certificate.

vi. To obtain information once in three months in the prescribed format on faculty involvement on guiding students, paper publications, research projects from external funding agencies and in collaborative research activity.

Committee-2: Research Program, Policy Development shall strive for:

i. To prepare annual research plan, implement and monitor the research activities of the university departments.

ii. To build the research capacity of the faculty members and students of the university departments through various activities and the events related to research.

iii. To formulate the rules and regulations related to policy framework for utilization of facilities and resources of university departments.

iv. To prepare annual research plan, implement and monitor the research activities of the university departments.

v. To build the research capacity of the faculty members and students of the university departments through various activities and the events related to research.

vi. To formulate the rules and regulations related to policy framework for utilization of facilities and resources of university departments.

vii. To formulate rules and regulations related to facilitate exchange of students, faculty and scholars of the university departments.

viii. To develop research information management system of the university departments and to facilitate the access of the same to others.

ix. To promote quality publications and patents of the researchers of the university departments through incentives and prizes.

x. Frame guidelines pertaining to the conduct of Ph.D and Post-Doctoral research programs offered by SSAHE on the lines prescribed by the UGC.

xi. Prescribe suitable guidelines for declaring the permanent teachers to be the research guides of Doctoral/Post Doctoral programs from time to time.

Committee-3: Collaboration & Community shall strive for

i. To develop networking and collaborative research of university departments with national and or international institutes.

ii. To establish liaison with industry and identify the technological challenges being faced by them. Strengthen industry institute interaction through MoUs for long term relationships with national and international research organizations for widening the scope of research options and funding opportunities for faculty and students.

iii. To initiate and promote MoU with industries and R&D organizations for consultancy, collaborative research, sponsored projects, industry and Institute interactions etc.

iv. To arrange brainstorming sessions through talks by eminent personalities from industry, R& D organizations and institutions of repute for the better understanding of research methodology and practices currently followed.

v. To keep everyone informed about announcements by various funding agencies like DST, DAE, DRDO, ISRO, CSIR, AICTE, UGC and University etc.

vi. To scrutinize research project proposals for submission to funding organizations such as UGC, AICTE, DST, DRDO etc.

Committee-4: Product Development, Monitoring and Commercialization shall strive for:

i. To motivate Innovators to come up with new ideas and help them to protect the innovation.

ii. To support technology development and business centered facility of the university departments.

iii. To foster innovations, entrepreneurships & Startups.

iv. Develop industrial collaboration and agreements and further leveraging on consultancy work.

v. To enlighten the state-of-art technologies to scholars through special lectures on contemporary research topics by renowned experts in key areas.

vi. To work on enabling and supporting technology/IP transfer and commercialization of granted IPRs.

Committee-5: IPR, Legal & Ethical Matters shall strive for:

i. Conduct activities to provide a clear understanding of the rights and responsibilities of the faculty, staff, and students to protect their IP's generated through research work.

ii. To monitor and maintain the integrity and ethics of the research activities of the university departments.

iii. To disseminate knowledge on patents, patent regime in India and abroad and registration aspects.

iv. To enable IP Policy adoption and implementation at the university.

v. To conduct Workshops, Seminars and Training courses on IPR.

vi. Facilitate patent applications

Constitution of RAC & RDC and other committees will be notified separately from directions of UGC and regulation of SSAHE from time to time.

Research Continuum