



SANTHIRAM COLLEGE OF PHARMACY

Approved by AICTE & PCI, New Delhi - Affiliated to JNTUA, Anantapur
NH - 18, Nandyal, Kurnool District, Andhra Pradesh - 518501.

3.2.1: Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

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Response:

Santhiram College of Pharmacy has a vibrant **Research & Development Cell**, an apex body to guide SCOP research community and innovation for creation and transfer of knowledge.

The apex body is constituted with a team of experts drawn from academic Institutions, Scientists, Entrepreneurs and Industrial researchers from various reputed organizations. The team generates links with the industry through periodic visit to their office and participating in monthly and annual meets.

SCOP established a Research Centre, Entrepreneurship Development Cell and Incubation Centre. The early initiative to create an ecosystem for innovations is the formation of various **student clubs** for creation and transfer of knowledge. The hidden talents of the students are identified and nurtured through student clubs, co-curricular and extra-curricular activities.

SCOP Research and Development Centre comprises of senior faculty members from each department. Dean (R&D) who is a senior professor having handsome experience and expertise in versatile research field heads R&D Centre with the principal presiding over. The committee oversees the smooth and efficient coordination of research and development activities in the institute, thus fostering overall growth.

The aim of SCOP R&D cell is to foresee future problems through pursuit of technology to respond to current social demands, and to contribute to the creation and development of scientific technologies with the aim of realizing an affluent society and natural environment for humanity. At the same time, the SCOP aims to create excellent educational resources and an excellent educational environment through frontline researches.



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To achieve the above-mentioned purposes, the following objectives are set:

- Lead the academic world and conduct internationally high-level researches in each pharmacy field
- Conduct cutting-edge researches to lead the academic and industrial worlds at home and abroad and create and develop new academic and technological fields
- Aim to globalize research and education
- Provide suggestions for the future of humanity and the earth, based on high-level academic foundations and vision
- Conduct researches that contribute to the development of human resources who can play a leading and core role in society and researchers who can conduct cutting-edge researches

MISSION AND VISION OF R&D CELL

- Image building of the Institution.
- Creation of research facilities in-house and in collaboration with other national institutes and laboratories.
- Conducting workshops/national and international seminars
- Identification of research projects for faculty and encouraging students for such.
- Imbibing the culture to carry out innovative projects with the students beyond curriculum.
- Conducting various competitions for students on projects and seminars.
- Training younger generation teachers with innovative research projects
- Encouraging faculty and students to attend seminars and workshops inside and outside the state.
- Encouraging faculty and students for publication of research papers in national and international journals of repute.
- Encouraging teachers and students to apply for patents.
- Bringing Research to class rooms by inviting scientists for interaction with students.



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The prime aim is to engage large number of faculty, student and staff in various innovation and entrepreneurship related activities such as ideation, problem solving, proof of concept development, product development, molecule design, design thinking, IPR, project handling, management at pre-incubation, and incubation stages, etc. So that innovation and entrepreneurship eco system gets established and stabilized at Higher Education Institution.

Incubation Centre:

Our Institution is located in an eco-friendly campus and our management encourages staff and students to carry out research projects that give practical solutions to problems which causes hazard to the human life.

Our Incubation Centre is primarily established to encourage students, staff and alumni for entrepreneurship and innovation. It provides a platform to the prospective entrepreneurs to convert business plan into a commercially viable project by applying technical and managerial skills for societal needs. Students are provided facilities to build prototypes useful for health care promotion. Workshops on emerging trends in field of pharmacy are held. Students are encouraged to gain hands on experience and better Industrial Exposure. It is also aimed to resolve the issues of local area.

The following Facilities are available for Innovation & Incubation at SCOP: Fully furnished office with required space, personal computers, printers and scanners, software tools for analysis and design and high speed internet connectivity, Audio-video conferencing facility, equipment in laboratory or workshop (Including modern facilities like Autodock, Chems sketch, Chem Draw, Biovia, Pyrx, DOE), Digital Library facility and most important being the support and guidance of SCOP Alumni spread across the globe.

The Entrepreneurship Development Cell, Research Cell and Incubation Centre together support the students in business network support through mentoring, providing access to professionals, relevant training programs, legal advice, guidance in registering IPR/company and Seed Funding Assistance.



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This helps in organizing programs for students of all years inviting industry experts to interact with the students. Apart from this, the team also seek Student projects, internship, request to set up extended development centre and Centres of Excellence, guest lecture, problem statements, consultancy work, etc.

On the activity side, Eminent industrialists and budding entrepreneurs are often invited to motivate young students. Prospective start-ups are advised to submit application with an executive summary of business plan. Advisory Board's meetings are conducted. The executive summary is presented to Advisory Board. **Advisory Board** provides guidance about viability of the project. Modifications if any are suggested and plan is finalized. Incubation Project proceeds further. Our EDC has an advisory board comprising members like, chartered accountant, bank manager, practicing advocate, Sr. managers from industry, renowned regional entrepreneurs, principal of the institute and faculty in-charge.

Activities Undertaken by EDC include awareness programs for students by institute which were conducted during last five years. Many webinars were organized during COVID times. Information about incubation centre is constantly shared with students and they are motivated for entrepreneurship and innovation. Our Institution has active MoU's with the best of the hospitals/Industries in all branches that support students technically by conducting regular training programs and competitions leading to entrepreneurship, innovation and incubation.

Following Activities are implemented through Incubation centre:

Research & Development Lab:

- To organize research promotion events like conferences, seminars, workshops, invited lectures
- To motivate faculty for doctoral and post doctoral research.
- To encourage faculty to undertake research projects in thrust areas in science and technology with funding from various national and international agencies.
- To inculcate the concept of research among students & staff by arranging paper presentation Competitions.
- To lay down guidelines for the conduct of inter -disciplinary research programmes in the departments and establish modalities for preparing and undertaking joint research



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projects covering more than one knowledge domain as well as policies for involving external agencies/ experts in such projects.

- Encouraging the faculty members in getting financial support from industry, R&D Projects from Governmental organizations which include SERB, DST, CSIR, UGC, AICTE etc.
- Signing collaboration with other eminent research Institutes/ Labs/ Organizations for projects.
- The R&D Committee organize regularly research oriented Faculty Development Programs, workshops, Seminars & conferences in the College.
- Encourage publication of research articles by sending deserving entries in reputed journals.

Incubation Center:

- The sole objective of the Incubation Center is to facilitate students to convert their Ideas into Innovations..
- The institute has organised workshops, seminars, conferences, Awareness meets and guest lectures which provided a platform to interact with eminent resource persons for knowledge transfer.
- During the pandemic COVID 19 times institution has conducted many webinars to have recent outcomes in the field of pharmacy.
- The institute has signed many functional collaborations with various institutes, Pharmaceutical companies and hospitals.
- To bridge the gap between industry and institute, Industry institute interaction cell facilitates students and faculty members for industrial visit.
- Customize Student application, including page layouts, fields, tabs, and business processes
- Set up workflow automation



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Entrepreneurship Development Cell

It encourages merging a relationship between the industry and the institution. Individual department interacts with industry to ascertain its needs to fill the gap in curriculum. The gap is filled by arranging workshops addressed by industry personals.

Industry institution relationship works in the following areas:

1. Industrial visits for students and faculties,
2. Conduct Workshops, Seminars
3. Research and Internship Trainings
4. Consultancy Works

Other Initiatives:

1. The institute consistently provides motivation, support and platform for students to showcase their skills and knowledge in various competitive technical events.
2. Our College has been approved Institution of Innovation Council (IIC) by MHRD, and Our some Faculty participated in the IIC events.
3. Our students have participated in Hackthons and Awareness Program (NIPAM) etc.,
4. In addition to Incubation centre, the institute takes special efforts for transfer of knowledge through various technical activities such as Literacy Club, Sports Club, Pharma Club, Toast master club, Dance Club, Music Club, social service club etc.
5. The institute provides support in terms of financial, academic, infrastructural facilities, human resources required and timely administrative decisions to enable students and staffs for participating in the various technical activities.