



**Sri Ramachandra Institute of Higher Education and Research (DU)**  
**Central Research Facility**

**DST-FIST**

Department of Science and Technology, New Delhi - DST FIST in Level “O” category.

Advances in Pharmaceutical Education and Research

TPN No. -51440 ; File No. SR/FST/COLLEGE-/2020/1047

Funding Amount: 53 Lakh on 50: 50 ratio to strengthen the research facilities in the college.

Duration: 2021-2026 [5 years].

**ABOUT THE LAB**

DST-FIST focusing in drug discovery, biomarkers research, discovery biology and bioanalytical chemistry. The goal of DST-FIST Lab is to enhance productivity and success in drug discovery via biomarkers-based research facilitating the development of medicine and diagnostics suitable for individual patient so that the right drug is given to the right patient.

Our division Bio analytical uses for structural, metabolomics to meet the standards in executing the projects timely and successfully.

The lab draws on the student body from many faculties, including MBBS, BDS, Pharmacy, and Allied Health Science, In addition to research fellows and students from outside the academic community. Numerous national seminars and workshops are being arranged by this lab. assistance for projects.

The DST-FIST Lab housed various spectroscopic facilities, including GCMS, HPTLC, HPLC, and minor equipment facilities.

The lab is intellectualized and led by Dr. Lakshmi Sundaram, Associate Professor (Research), at Sri Ramachandra Faculty of Pharmacy @ SRIHER(DU), Chennai.TN.



Henceforth our project aims to develop infrastructure facilities of SRFOP and excel to next level DST-FIST level-1. Mainly to give hands on training on sophisticated equipments to young budding graduates and scholars.

## PRINCIPAL INVESTIGATOR



**Dr.A.Jerad Suresh**

Principal

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## CO-INVESTIGATORS



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## TEAM



## CURRENT PROJECT

### **Brief Outline College**

Established in 1993, this constituent college is a prestigious institution located in a multilevel building with well equipped research laboratories and draws research scholars from different parts of the nation. The college offers a 4 year professional degree in pharmacy (B. Pharm.) which teaches pharmacology, medicinal chemistry, pharmaceutics and chemistry of natural products as part of the course. Diploma holders in Pharmacy are admitted to the II year of the B.Pharm. degree course under Lateral Entry. The college also offers a 6-year Pharm. D. course and Pharm.D. (Post Baccalaureate) course for those with B.Pharm qualification.

## Teaching & Research Activities

The salient features of Teaching Learning Practice include mainly to learn knowledge, skill and attitude component required to achieve desired educational outcome. The content focus and interaction with students include:

1. Critical thinking
2. Problem based learning
3. Reflection in class
4. Activity based learning which plays an important role in teaching the students to collaborate, communicate, interact and work in teams.

The college is having 7 PG specialization and earlier funds received from various funding agencies like DST-SERB, DBT, LSRB-DRDO, SPAARC, Electrolab, Tamilnadu S and T, etc. for different specialty domains in the college. GLP accredited animal lab and central research lab facility is available within the campus for smooth functioning of research work.

### Activities from August 2022

Activity	Date /Venue	Number of participants	Report( drive link accessible to everyone)
Chemcon 2022 Hands On Training On Chromatographic Techniques – HPLC (DST-FIST Sponsored Instrument) And HPTLC – <b>Series I</b>	20.08.2022, 08.00AM – 4.00PM  Venue: Central Research Facility, Dental College Basement, SRIHER	27 from various external institutions	<a href="https://docs.google.com/document/d/1keB3v5I7Yg8GRKRgd_ADW4eHNTY--dUv/edit?usp=share_link&amp;oid=110128683415560712976&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1keB3v5I7Yg8GRKRgd_ADW4eHNTY--dUv/edit?usp=share_link&amp;oid=110128683415560712976&amp;rtpof=true&amp;sd=true</a>
Chemcon 2022 Hands On Training On Chromatographic Techniques – HPLC (DST-FIST Sponsored Instrument) And HPTLC – <b>Series II</b>	28.10.2022, 08.00AM – 4.00PM  Venue: Central Research Facility, Dental College Basement, SRIHER	21 from various external institutions	<a href="https://docs.google.com/document/d/12DE3TA1BJdjTyug8R65GmHtCchRproRZ/edit?usp=share_link&amp;oid=110128683415560712976&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/12DE3TA1BJdjTyug8R65GmHtCchRproRZ/edit?usp=share_link&amp;oid=110128683415560712976&amp;rtpof=true&amp;sd=true</a>
PG Orientation Programme(2022-2	8 <sup>th</sup> – 10 <sup>th</sup> , 14 <sup>th</sup> Nov 2022	M.Pharm -39 Pharmaceutical	<a href="https://docs.google.com/document/d/1ydgP0vRYFMK4FZerAt9s_4j73fUeX6P">https://docs.google.com/document/d/1ydgP0vRYFMK4FZerAt9s_4j73fUeX6P</a>

3 Batch)	Central Research Facility, SRIHER, 10.30 -12 noon	QA -12 Pharmaceutical Analysis - 14 Pharmacology -10 Pharmacognosy - 3	<a href="https://edit?usp=share_link&amp;ouid=103738388556611101898&amp;rtpof=true&amp;sd=true">j/edit?usp=share_link&amp;ouid=103738388556611101898&amp;rtpof=true&amp;sd=true</a>
PG- Dissertation Work	22.8.2022 – Apr 2023	HPLC method for simultaneous quantification of nicotine and cotinine levels in Human plasma after exposure to tobacco products	Project –PI: Dr.Murugesan / Dr.R.Lakshmisundaram Department : Pharmacology , College of Pharmacy, SRIHER. No of students : 2 (M Pharm-Pharmacology)
Modern Pharmaceutical Analytical Techniques course Practicals	Nov 2022 –March 2023	HPLC Estimation of diclofenac tablets	PG branches QA(11), Pharmaceutics(15), Pharmaceutical Analysis (15), Pharmacology(15) and Pharmacognosy(3) -59 students
Chemcon 2023 Hands On Training On Chromatographic Techniques – HPLC (DST-FIST Sponsored Instrument) And HPTLC –Series III	21.01.2023 08.00AM – 4.00PM Venue: Central Research Facility, Dental College Basement, SRIHER	27 from various external institutions	<a href="https://drive.google.com/file/d/1HPPM-775d4kAZUJLNro1fAiwmaI3eoua/view?usp=share_link">https://drive.google.com/file/d/1HPPM-775d4kAZUJLNro1fAiwmaI3eoua/view?usp=share_link</a> <a href="https://drive.google.com/file/d/1I1OnSguHoYykFiS3MOAeLi-xT012_GJ-/view?usp=share_link">https://drive.google.com/file/d/1I1OnSguHoYykFiS3MOAeLi-xT012_GJ-/view?usp=share_link</a> <a href="https://drive.google.com/file/d/1FUyGcv5YXbtLDdFrQVSrS-DPL1p6GN2J/view?usp=share_link">https://drive.google.com/file/d/1FUyGcv5YXbtLDdFrQVSrS-DPL1p6GN2J/view?usp=share_link</a>

#### Training to other discipline students of constituent colleges of SRIHER.

1. HPLC training given for SRIHER, CEFT- MSc- Applied Regulatory Experimental Toxicology, Analytical techniques. no of students -3. Two days training has been given. Experiment about curcumin quantification from turmeric powder.
- 2 HPLC training given for SRIHER, MSc-Stem cell research course, II semester -Practical class. No of student -9 (May -16, 2022) for 2 Days, Experiment about caffeine quantification from green tea and coffee powder.
- 3 HPLC training given for SRIHER, BSc-Clinical Research course III Sem-Practical class – No of students -9 (November-19-2022 and December -3.2022) Experiment about Herbal drug analysis.
4. HPLC training given for SRIHER-BMS-MSc student. No of students 6 nos. Date -

3.01.2023 Experiment about caffeine quantification from *Coca cola* drinks.

**Contact Us:**

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