



M.Sc in Bioanalytical Sciences
*(An Interdisciplinary Post Graduate Course
Affiliated to University of Mumbai)*

**Department of Bioanalytical Sciences established in
2019, Funded by RUSA (Rashtriya Uchchatar
Shiksha Abhiyan)**

Program: M.Sc (CBCS Regular, full time)

Duration: 2 years **Batch size:** 20 students per year

Eligibility for admission: B.Sc. in Biochemistry, Biotechnology, Botany, Chemistry, Life Sciences, Microbiology, Zoology and B.Voc in Pharma Analytical Sciences.

Selection criteria for admission: Entrance exam and personal interview

Application for the course: Interested candidates have to check notification on SIES College website <http://www.siesascs.edu.in/>

Objectives: M.Sc in Bioanalytical Sciences is an Interdisciplinary course specifically planned to address the need of trained personnel in chemical, pharmaceutical industries, and industries manufacturing ASU (Ayurveda, Siddha and Unani) formulations and R&D (Research and Development) Organizations.

Purpose and Rationale: The curriculum for this course has been designed by experts from industries, scientists from research institutions and academicians with special emphasis on hands on training of instruments and exposure to industries.

Relevance and Impact: The course has received positive feedback from students, teachers and researchers and this course also serves as an ideal platform for industry-academia collaboration and job opportunities in pharmaceutical and allied industries.

Highlights of the Course:

- ✓ Guest Lectures by experts / visiting faculties from Industries/Research Institutes
- ✓ Hands on training on analytical instruments
- ✓ Industrial Visits/ Field Trips and visits to Laboratories
- ✓ Industrial Training/ Internship
- ✓ Project work: AYUSH/ Research Component
- ✓ Bridge Lectures for students from Chemical and Biological Sciences to bridge the academic gap at undergraduate level
- ✓ Assistance in Internship / Placements
- ✓ Cultural and Literary festival of the Department “Dravyashastram”

Links for Syllabus of M.Sc in Bioanalytical Sciences

M.Sc Part 1:

<https://drive.google.com/file/d/1xwhmWRjmDZ2oedbEx1RN0HyxDEnlFFKJ/view?usp=sharing>

M.Sc Part 2:

https://drive.google.com/file/d/1kjj4v-DIVEJcL4sheCCvBc_gsa-FXSCb/view?usp=sharing

Ph.D. program in Bioanalytical Sciences

Program: Ph.D.

Course / Subject: Bioanalytical Sciences

Number of seats: 06

Research Guide: 01

Name of Research Guide: Dr. Satish S Sarfare

Research interest: Natural Products, Extraction and Isolation of phytochemical compounds, Toxicity, Efficacy and Pharmacokinetic studies using animal models, Bioanalytical method development.

Contact Details: satishs@sies.edu.in

Bioanalytical Sciences Laboratory and Pharmacopoeias



Key Initiatives

a) Offline Workshops conducted

- ✓ “Training and Skill Development in Instrumentation and Bioanalytical Techniques” under the aegis of RUSA (Beneficiaries: Post Graduate students)
- ✓ “Inculcating research aptitude and developing research skills” under the aegis of RUSA (Beneficiaries: Undergraduate and Post Graduate students)

b) Popular Science Lecture Series

c) Orientation sessions for students on

- ✓ “Opportunities in Pharmaceutical Industries”
- ✓ ‘All India Cadre of Safe Food Business Professionals’ Young Talent Search

Dissolution Unit
(VEEGO)



Friability Unit (VEEGO)



Electrophoresis Units
(TECHNOCRAFT)



Disintegration
Unit (VEEGO)

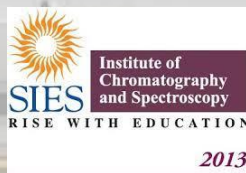
Gas Chromatograph
(SHIMADZU)

Analytical
Balance
(SHIMADZU)

BOD incubator
(BIOTECHNICS)

HPTLC Spotter
(CAMAG)

Linkages and Collaborations



Contact Details:

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Vice Principal and Course Coordinator

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Ms. Pracheta S. Salunkhe

Faculty and Mentor

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