

(A unit of VS Educational & Charitable Trust)

Approved by Tamilnadu Government & Pharmacy Council of India, New Delhi.

Affiliated to the Tamilnadu Dr. M.G.R. Medical University, and The Directorate of

Medical Education, Chennai.

## NAAC PEER -TEAM VISIT

CRITERION-II
TEACHING LEARNING
EVALUATION

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### INTRODUCTION

SSIP is an affiliated with The Tamilnadu Dr.M.G.R.Medical University Chennai. 50% of the seats are surrendered to DME (Directorate of Medical Education) for admission through single-window counselling, and the remaining seats are filled through management and merit-based admissions according to state government guidelines. Above 90% of the seats are filled each year, and SSIP strives to provide education access to students from all backgrounds. Additionally, deserving management aspirants may receive government or management scholarships.

SSIP has a dedicated team of highly competent faculty members, 50% of whom hold doctorates. The student-faculty ratio for the academic year is 13:1. The Centre for teaching-learning practices regularly organizes faculty induction programs, workshops, discussion forums, and Faculty Development Programs to develop 21st-century teaching skills. These skills aim to prepare students to be culturally competent, innovative problem-solvers, and critical thinkers, enabling them to work in multidisciplinary fields. Students are familiar with outcome-based education from the orientation program onwards and are guided by the director, tutors, mentors, and course instructors.

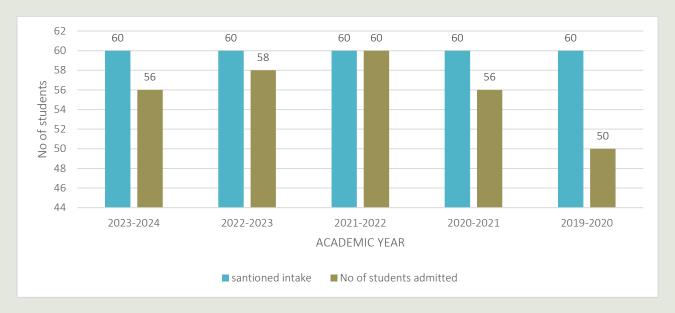
Faculty members employ a variety of student-centric learning methods such as experiential learning, participative learning, problem-solving techniques, simulation, and traditional learning methods to promote effective teaching and learning experiences. They also encourage students to tackle real-time problems and participate in national-level project contests.

The SSIP exam cell conducts internal assessment tests and manages university examinations transparently. It also addresses student grievances related to exams. In addition to internal tests, students' learning is assessed using written assignments, presentations, case studies, mini- projects, video documentaries, etc. The marks scored are accounted for as continuous assessment marks, and course outcomes are evaluated based on the continuous assessment marks and course- end surveys. Actions for continuous improvement are determined based on the evaluation. The entire teaching-learning process is audited by an internal academic audit committee. As a result of these practices, SSIP consistently produces a high percentage of successful graduates, with more than 95% graduating each year.

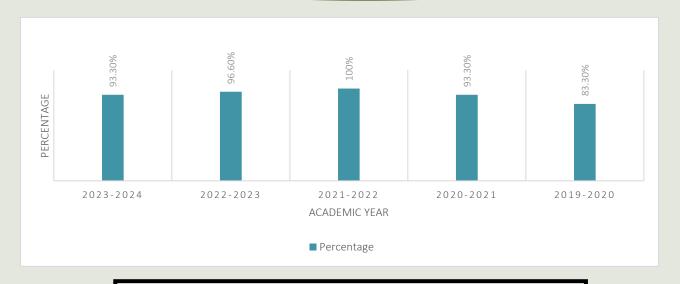
### 2.1 STUDENT ENROLMENT AND PROFILE

### 2.1.1.1. Number of students admitted year wise during last five years

### 2.1.1.2. Number of sanctioned seat year wise during last five years



### 2.1.1 ENROLMENT PERCENTAGE



**AVERAGE ENROLMENT PERCENTAGE: 93.3 %** 

## 2.1.1 AVERAGE PERCENTAGE OF SEATS FILLED AGAINST RESERVED

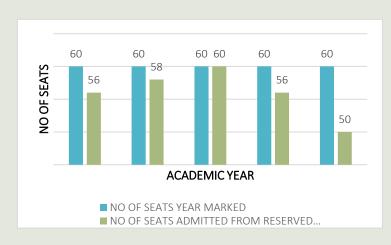
### 2.1.2.1 Number of Students Admitted from Reserved Category

## 2.1.2.2 Number of Seats Year Marked for Reserved Category as Per GOI or State Government Rule

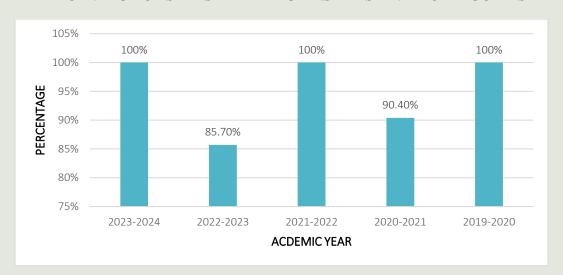
### STATE GOVT RULE

## 20% 50% 30% ■ OBC ■ GEN ■ SC/ST

### **SEATS FILLED IN RESERVED CATEGORIES**



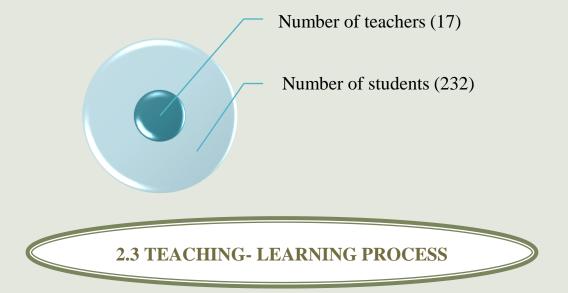
### PERCENTAGE OF SEATS FILLED AGAINST RESERVED CATEGORIES



AVERAGE PERCENTAGE OF SEATS FILLED AGAINST RESERVED CATEGORIES: 95.2 %

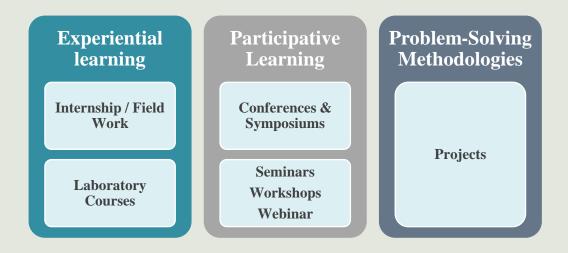
### 2.2 STUDENT TEACHER RATIO

2.2.1. Student Full-time Teacher ratio for the Academic year 2023-2024



## 2.3.1. Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing.

The classrooms at SSIP are equipped with smart boards, and students engage in learning through a range of student-centered approaches, such as experiential learning, participative learning, and problem-solving.

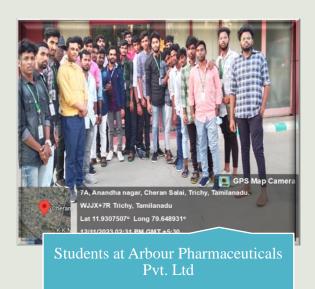


### **Experiential learning**

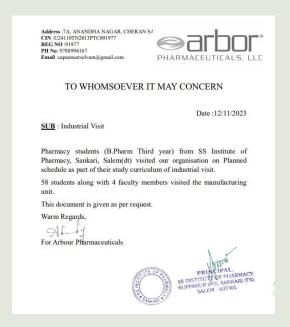
Experiential learning is fundamental to contemporary business education as it connects theoretical concepts with real-world application, helping students develop the skills and mindset needed to succeed in the ever-evolving business landscape. SSIP has progressively integrated experiential learning activities into its curriculum to offer students hands-on experience and enhance their problem-solving, decision-making, and leadership skills. These activities involve students directly engaging with the material, enabling them to learn through practice and reflection. Below is an overview of some of the key experiential learning activities implemented at SSIP.

### **Industrial Visits**

58 students of 2020 Batch B. Pharm and 4 faculties had visited the unit. The faculties Mrs. K.Sowndarya. Arbour Pharmaceuticals Pvt. Ltd. was established in 2013 and is located in 7A, Anandha Nagar, Cheran Salai, LIC Colony, Trichy-600021. It is involved in manufacturing of tablets, capsules and syrups. The industrial visit was really helpful to understand the proper manufacturing processes. It helped understanding each and every step involved in these processes in detail. Students were able to relate to the practical apects of the equipments and the processes studied in theory classes. Quality control department which was highly equipped with various analytical and quality control equipments like disintegration apparatus, dissolution apparatus, refrigerator, electronic water bath. The department had areas for reserve sample room and the instrumentation room.







### **Internships**

Internships provide students with practical work experience, allowing them to apply classroom knowledge, develop essential professional skills, and gain industry insights. They also offer opportunities for networking, mentorship, and future career prospects.







### DEEPAM HOSPITALS

NO.327, Muthurangam Road, West Tambaram, Chennai

Date: 29/02/202

#### CLINICAL RESEARCH TRAINING

This is to certify that below mentioned II<sup>el</sup> B Pharm students from SS Institute of Pharmacy, Sankari, Salem has successfully completed 15 days (1202/2024 to 28/02/2024) of health care facility & basic learning of Clinical Research training in Deepum Hospitals, Chennai

S.no	Name of the student	Register no
1	KAVIYA .S	560021523531
2	KESAVAN.P	560021523532
}	KIRUBANIDHLR	560021523533
4	KIRUTHIKA.P	560021523534
5	MEGALA.G	560021523535
6	MOHAMMED KABEER.A	560021523536
7	RANISH.G	560021523537
k	SARAN MOHAN.R	560021523538
)	SASIKALA.G	560021523539
0	SATHYA JASMINE.A	560021523540
1	SETHURAMAN.P	560021523541
12	SOWMIYAD	560021523542
13	SRIGANTH.K	560021523543
4	SUGASHINI.M	560021523544
15	SUNDHAR.S	560021523545





No. 327, Muthurangam Road, West Tambaram, Tambaram, Chennai, Tamil Nadu 600045



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S.No	Name of the student	Register no		
1	SURIYA.M	560021523546		
2	SYED ABDULLA A	560021523547		
3	TAMILMANI.P	560021523548		
4	THIRUMALALR	560021523549		
5	THIRUMENINATHAN.M	560021523550		
6	UMA SHANKARLE	560021523551		
7	VAITHEESWARLV	560021523552		
8	VIGNESHC	560021523553		
9	VIGNESHS	560021523554		
10	VIJAYASARATHLS	560021523555		
11	VIMAL.R	560021523556		
12	VINOTHINLA	560021523557		
13	VISHALATCHLK	560021523558		
14	YAZHINLB	560021523559		
15	S.YUVAKIRUTHIGA	560021523560		





No. 327, Muthurangam Road, West Tambaram, Tambaram, Chennai, Tamil Nadu 600045



Hospital field training

### Lab courses

S.NO	LABORATORY SUBJECT
1	HUMAN ANATOMY AND PHYSIOLOGY I
2	PHARMACEUTICAL ANALYSIS I
3	PHARMACEUTICS
4	PHARMACEUTICAL INORGANIC CHEMISTRY
5	HUMAN ANATOMY AND PHYSIOLOGY II
6	PHARMACEUTICAL ORGANIC CHEMISTRY I
7	BIOCHEMISTRY
8	PHARMACEUTICAL ORGANIC CHEMISTRY II
9	PHYSICAL PHARMACEUTICS I
10	PHARMACEUTICAL MICROBIOLOGY
11	PHARMACEUTICAL ENGINEERING
12	MEDICINALCHEMISTRY I
13	PHYSICAL PHARMACEUTICS I
14	PHARMACOLOGY I
15	PHARMACOGNOSY AND PHYTOCHEMISTRY I
16	INDUSTRIAL PHARMACY I
17	PHARMACOLOGY II
18	PHARMACOGNOSY AND PHYTOCHEMISTRY II
19	MEDICINALCHEMISTRY II
20	PHARMACOLOGY III
21	HERBAL DRUG TECHNOLOGY
22	ISTRUMENTAL METHOD OF ANALYSIS

## **Laboratory Performance of Students**













## **Participative learning**

## **List of Conferences Attended**

S.NO	DATE	TITLE	NAME OF THE INSTITUTION	YEAR	NO. OF STUDENTS PARTICIPATED
1	21.11.2024, 22.11.2024, 23.11.2024	National conferences on the refinement towards medication safety in compliance with pharmacy practice and pharmacovigilance	finement towards ication safety in nnce with pharmacy practice and  Sengundhar College of Pharmacy, Tiruchengode		13
2	19.09.2024	One day national seminar on 'Recent advances in medicinal chemistry for Pharmaceutical		B.Pharm (2022- 2026)	16
3	04.11.2023	Innovations in pharmaceutical analysis: Integrating hyphenated techniques for enhanced drug characterization and quality  Excel College of Pharmacy, Namakkal		B.Pharm (2022- 2026)	16
4	03.11.2023	'Innovation and global trends in research for formulating natural products'  JKKN Colleger Pharmac Komarapala		B.Pharm (2023- 2027)	15
5	25.07.2023	'Emerging Research Trends in Pharmaceutical Industry and Pharmacy Education'	Pharmaceutical Erode College of Pharmacy, Erode		15
6	28.06.2023	'Revolutionizing Healthcare: Transforming JKKN Colleg		B.Pharm (2023- 2027) & (2022- 2026)	20







### At Paavai College of Pharmacy





### At Sengunthar College of Pharmacy







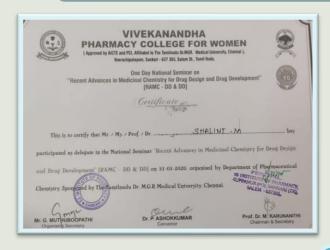
### At JKKN College of Pharmacy - 2024





### At Vivekananda College for Women - 2024









## At Dhanalakshmi Sriniyasan Institute of Pharmacy -2024





### Workshop at IPC, Ghaziabad







### At Swamy Vivekananda College of Pharmacy for Women







At Devaki Amma Memorial College of Pharmacy



At Sri Shanmuga College of Pharmacy





## **Participative learning**

### **Webinars Conducted**

S.NO	DATE	TITLE	NO. OF BENEFICIARIES
1	31.05.2024	Pharmacokinetics and pharmacodynamics of anticancer drugs	24
2	03.05.2024	Current scope of siddha formulations	23
3	30.03.2024	The role of medicinal chemistry drug development	23
4	05.01.2024	The role of ethnobotany in drug discovery	25
5	10.11.2023	Smart drug delivery system	22
6	21.10.2023	Medicinal plants for Covid-19 treatment	23
7	30.09.2023	Novel technology adopted in pharmacovigilance	20
8	02.09.2023	Recent trends in the Authentication of Herbal drugs	40
9	01.07.2023	Biopharmaceutics in drug development and personalized medicine	24
10	09.06.2023	Green chemistry in pharmaceutical manufacturing development	30
11	03.02.2023	Pharmacogenomics and personalized medicine	25

## **Problem-Solving Methodologies**

### **Academic Project work**

No. of projects done during academic year 2023-2024

11

No. of students done project work

55



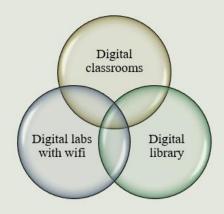






### ICT TOOLS AND SUPPORT

SS Institute of Pharmacy Provides various ICT Tools and supports for our students.

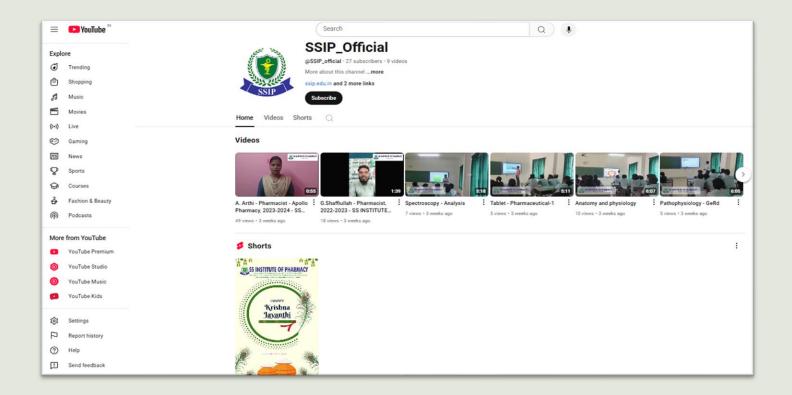


### List of ICT tools used

S. NO	SUBJECT CODE	SUBJECT TITLE	TOPIC	ICT TOOLS USED	LINK
1	BP204T	Pathophysiology – Theory	GERD	YouTube – Video Lecture	https://youtu.be/bzW_Z_jvsQ ?si=BtU0zFfR55cafPGB
2	BP102T	Pharmaceutical Analysis I – Theory	Spectroscopy YouTube – Video Lecture		https://youtu.be/5j07YdMJE9k ?si=YMs5Vb_Ptu5CUbmg
3	BP103T	Pharmaceutics I – Theory	Tablet	YouTube – Video Lecture	https://youtu.be/0TMIve7GGc 0?si=cQhqmcpN8Y3SbY3z
4	BP503T	Pharmacology II – Theory	Anatomy and Physiology	YouTube – Video Lecture	https://youtu.be/K8ulEpNbdjk ?si=J2c0FT83PFtZPEzl

### **ICT Enabled tools**

### SSIP's YouTube Official Page



### **ICT Enabled classrooms**

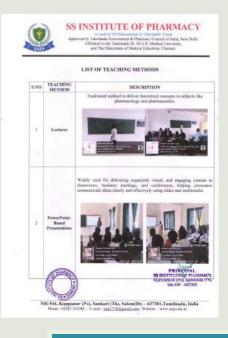


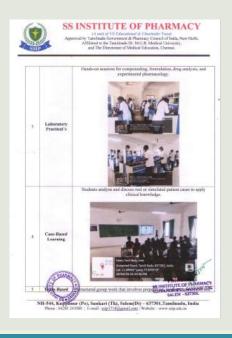


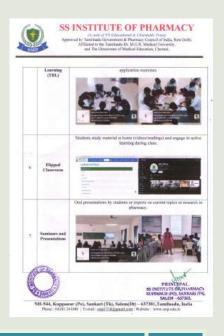
## **Computer And IT Facilities**

YEAR	QUANTITY	PROCESSOR	RAM	STORAGE	CABINET	WI-FI BANDWI DTH	CCTV CAMERAS INSTALLED	KEY HIGHLIGHTS
2018	15	Intel i3-7th Gen (7100)	2GB	500GB HDD	ATX	100 Mbps	-	Initial IT upgradation
2019	15	Intel Core 2 Duo @ 2.80 GHz	2GB DDR3	320GB HDD	ATX	100 Mbps	-	System expansion
2020	10	Intel Core i3- 1st Gen	2GB	500GB HDD	ATX	100 Mbps	10	Storage upgrade + CCTV installation
2021	10	Intel Core i3- 7th Gen	4GB	500GB HDD	ATX	100 Mbps	5	RAM upgrade + Additional CCTV cameras
2022	12	Intel Core i5- 6th Gen	Not specified	128GB SSD	ATX	100 Mbps	-	Shift to SSDs
2023	10	Intel Core i5- 4th Gen	8GB	500GB HDD	ATX	100 Mbps	10	Major RAM boost + CCTV installation
2024	-	Continuous upgrades	-	-	-	100 Mbps	-	Infrastructure strengthening

## **List of Teaching Methods**





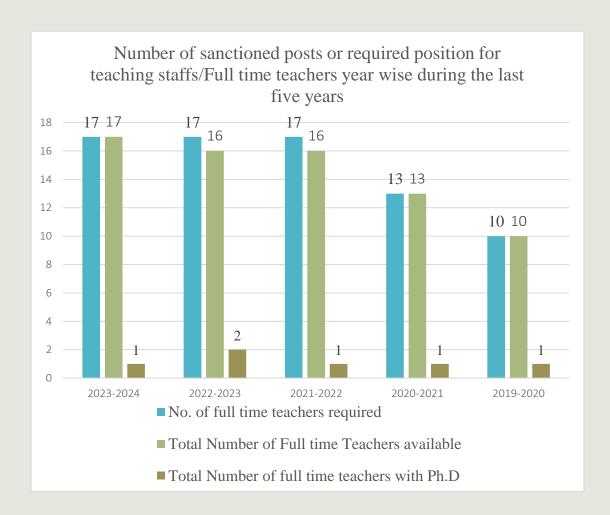


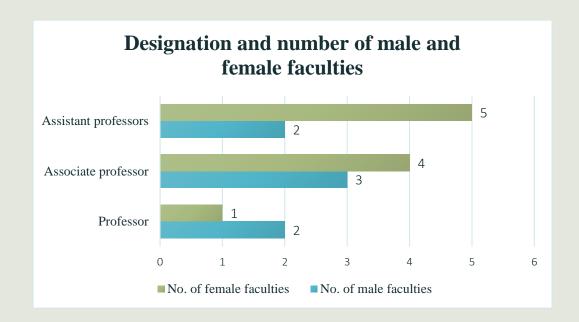
### **List of Power Point Presentations**

S.NO	SEMESTER	SUBJECT CODE	SUBJECT TITLE	ICT TOOLS USED	TITLE	
1	VI	BP606T	Biopharmaceutics and Pharmacokinetics – Theory	Power Point Presentation	Absorption	
2	VI	BP601T	Medicinal Chemistry III – Theory	Power Point Presentation	Anti-Fungal Drugs	
3	V	BP501T	Medicinal Chemistry II – Theory	Power Point Presentation	Antibiotics	
4	V	BP507P	Pharmacology II – Practical	Power Point Presentation	Anti-Hypertensives Drugs	
5	IV	BP402T	Medicinal Chemistry I – Theory	Power Point Presentation	Bioisosterism	
6	VI	BP602T	Industrial Pharmacy-I Theory	Power Point Presentation	Cosmetics	
7	V	BP501T	Pharmaceutical Organic Chemistry III – Theory	Power Point Presentation	Cyclo Alkanes	
8	IV	BP401T	Pharmaceutical Inorganic Chemistry	Power Point Presentation	Dental Products	
9	III	BP307T	Biochemistry – Theory	Power Point Presentation	Enzymes	
10	III	BP304T	Pharmaceutical Engineering	Power Point Presentation	Evaporation	
11	IV	BP403T	Pharmaceutical Biotechnology – Theory	Power Point Presentation	Protein Gel Electrophoresis	
12	III	BP305T	Pharmacognosy and Phytochemistry I – Theory	Power Point Presentation	Shikimic Acid Pathway	
13	II	BP202T	Pharmaceutical Organic Chemistry I – Theory	Power Point Presentation	Nomenclature	
14	VIII	BP909ET	Cosmetic Science	Power Point Presentation	Oily And Dry Skin	
15	II	BP204T	Pharmaceutical Analysis I – Theory	Power Point Presentation	Pharmaceutical Premises	
16	IV	BP506T	Quality Assurance – Theory	Power Point Presentation	Premises	
17	II	BP203T	Physical Pharmaceutics I – Theory	Power Point Presentation	Protein Binding	
18	IV	BP401T	Pharmaceutical Organic Chemistry II– Theory	Power Point Presentation	Stereoisomerism	
19	IV	BP407P	Physical Pharmaceutics II – Practical	Power Point Presentation	Surfactants	

## 2.4. TEACHERS PROFILE AND QUALITY

- 2.4.1. Number of sanctioned posts or required position for teaching staffs/Full time teachersyear wise during the last five years.
- 2.4.2. PERCENTAGE OF FULL TIME TEACHERS WITH NET/SET/SLET/PH.D./D.M./ M.CH. / D.N.B SUPER SPECIALITY / D.SC. / D.LITT. DURING THE LAST FIVE YEARS (CONSIDER ONLY HIGHEST DEGREE FOR COUNT





S.N O	Name of the full time Teacher	2023- 2024	2022- 2023	2021- 2022	2020 - 2021	2019 - 2020	Department
1	Dr.C.Jothimanivannan	J	J	J	J	J	DEPARTMENT OF PHARAMCEUTICAL CHEMISTRY
2	Dr.G.Sekar		J				DEPARTMENT OF PHARMACOLOGY
	Total number of	1	2	1	1	1	
	Teachers with Ph.D	Staff	staffs	Staff	Staff	Staff	

PERCENTAGE OF FULL TIME TEACHERS WITH Ph.D

### 2.5 EVALUATION PROCESS AND REFORMS

### 2.5.1 Mechanism to deal with internal examination related grievances is transparent, timebound and efficient

S. NO.	EXAM CELL MEMBERS	DESIGNATION
1	Mrs. C. Kalaiselvi	Professor
2	Mrs. K. Sowndarya	Associate Professor
3	Mrs. P. Nandhitha	Assistant Professor
4	Mr. M. Praveen Kumar	Assistant Professor
5	Mr. S. Prakash	Assistant Professor
6	Ms. M. Manisha	Assistant Professor

Schemes for internal assessments and end semester examinations semester wise (sample copy)

Course			Internal As	sessment	End Seme	Total		
code	Name of the course	Continuous Mode	Session: Marks	al Exams Duration	Total	Marks	Duration	Marks
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology - Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental sciences - Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II –Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I– Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry - Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
	Total	80	125	20 Hrs	205	520	30 Hrs	725

11.2. Internal assessment: Continuous mode
The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

#### Table-XI:Scheme for awarding internal assessment: Continuous mode

Theory			
Criteria		Maximum Marks	
Attendance (Refer Table - XII)	4	2	
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5	
Student - Teacher interaction	3	1.5	
Total	10	5	
Practical			
Attendance (Refer Table – XII)	2		
Based on Practical Records, Regular viva voce, etc.	3		
Total	5		

#### Table- XII: Guidelines for the allotment of marks for attendance

Percentage of Attendance	Theory	Practical
95 – 100	4	2
90 – 94	3	1.5
85 – 89	2	1
80 - 84	1	0.5
Less than 80	0	0

#### 11.2.1. Sessional Exams

11.2.1. Sessional Exams
Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables — X.

Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

shall be computed for 10 marks.

#### Question paper pattern for theory Sessional examinations

For subjects having University examination

I. Multiple Choice Questions (MCQs)
OR
Objective Type Questions (5 x 2)
(Answer all the questions)
I. Long Answers (Answer 1 out of 2)
II. Short Answers (Answer 2 out of 3) 10 x 1 = 10 OR 05 x 2 = 10  $1 \times 10 = 10$  $2 \times 5 = 10$ 

### For subjects having Non University Examination I. Long Answers (Answer 1 out of 2)

 $1 \times 10 = 10$  $4 \times 5 = 20$ II. Short Answers (Answer 4 out of 6)

> Total = 30 marks

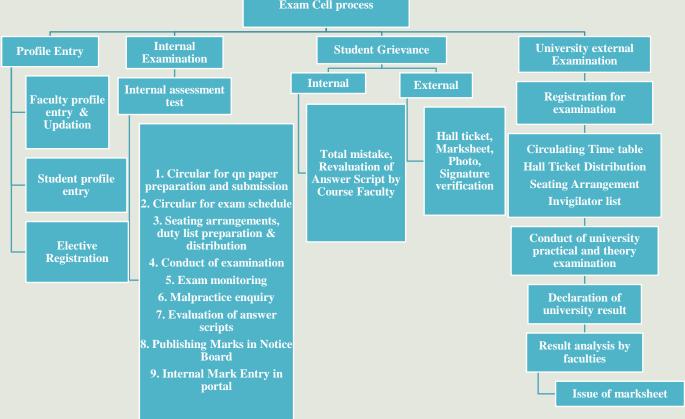
### Question paper pattern for practical sessional examinations

10 I. Synopsis II. Experiments 25 III. Viva voce 05

> Total = 40 marks

Internal assessment: Continuous mode

### **Exam Cell process**

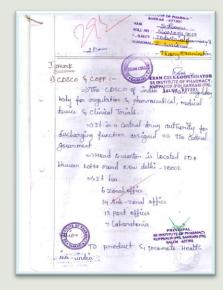








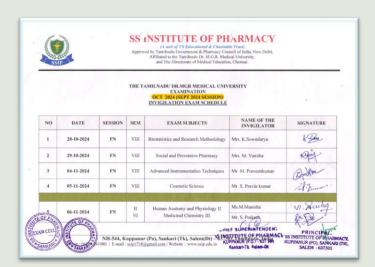
Sessional Examination Answer Script Sessional Examination **Question Paper** 



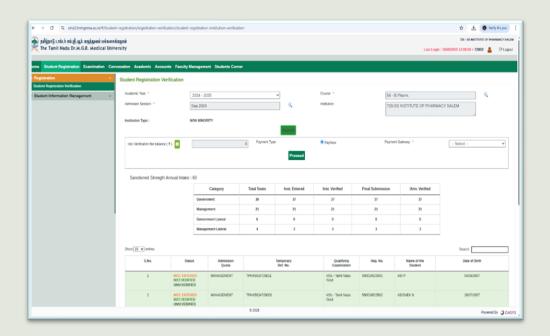
### **Notice Board Display**



**Internal Assessment** 



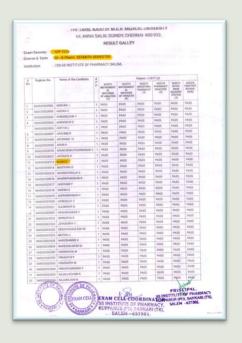
Exam Schedule and Appointment of Invigilators



### The Tamil Nadu Dr. M.G.R. Medical University- COE Portal



**University Question Paper** 



**University Examination Result** 

### Exam relevant grievances

### **Class Committee Meeting**

## **Class Committee Members**

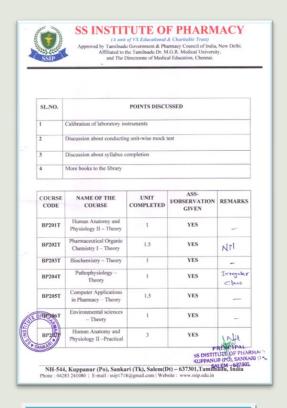
**Principal** 

**Chair Person** 

**Class Academic Supervisor** 

**Individual Subject Staff members** 

Student Representative (Male and Female)



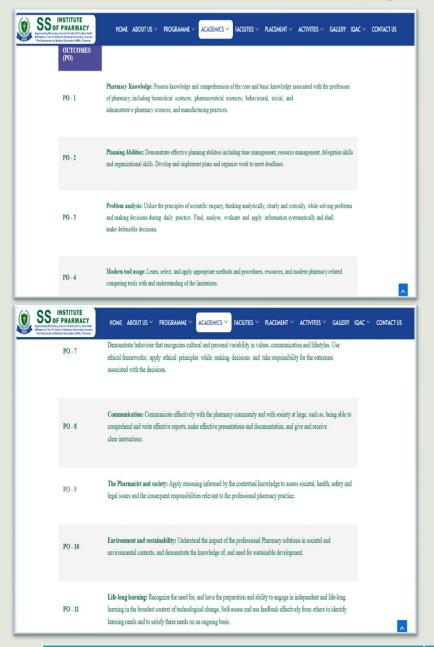
**Points Discussed in Meeting** 



**Action Taken** 

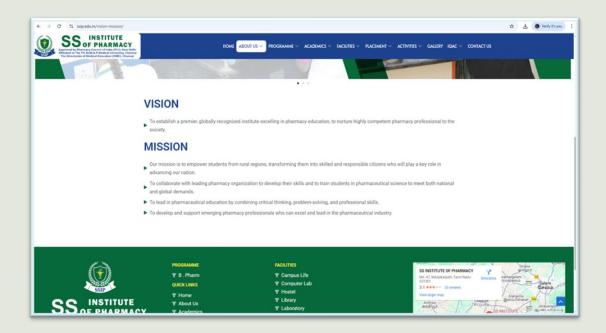
2.6.1. Programme Outcomes (POs) and Course Outcomes (COs) B.Pharm Programme offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated.

## PROGRAMME OUTCOME & COURSE OUTCOME DISPLAYED ON OUR INSTITUTION WEBSITE

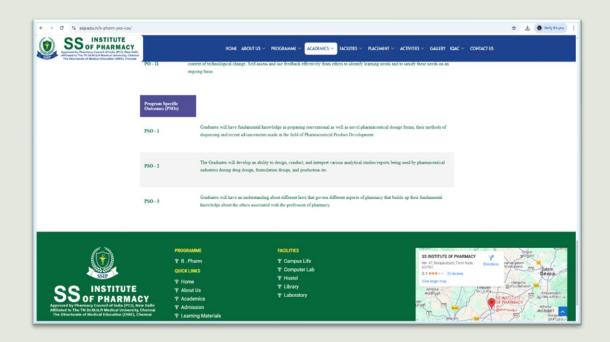




Hyperlink For POs displayed on the website	https://ssip.edu.in/b-pharm-pos-cos/
Hyperlink For Cos displayed on the website	https://ssip.edu.in/files/attach/CO.pdf



### **Vision and Mission**



**Program Specific Outcomes** 

### **Program Outcomes**

## PO 1 Pharmacy Knowledge

Possess knowledge and comprehension of the core and basic knowledge associated with the profession of pharmacy, including biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and manufacturing practices.

## Planning Abilities

Demonstrate effective planning abilities including time management, resource management, delegation skills and organizational skills. Develop and implement plans and organize work to meet deadlines.

## PO 3 Problem analysis

Utilize the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems and making decisions during daily practice. Find, analyse, evaluate and apply information systematically and shall make defensible decisions.

## PO 4 Modern tool usage

Learn, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related computing tools with an understanding of the limitations.

## PO 5 Leadership skills

Understand and consider the human reaction to change, motivation issues, leadership and team-building when planning changes required for fulfilment of practice, professional and societal responsibilities. Assume participatory roles as responsible citizens or leadership roles when appropriate to facilitate improvement in health and well-being.

### PO 6

### **Professional Identity**

• Understand, analyse and communicate the value of their Professional roles in society (e.g. health care professionals, promoters of health, educators, managers, employers, employees).

### PO 7

### Pharmaceutical Ethics

Honour personal values and apply ethical principles in Professional and social contexts. Demonstrate behaviour that recognizes cultural and personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical principles while making decisions and take

### PO 8

### Communication

Communicate effectively with the pharmacy community and with society at large, such as, being able to comprehend and write effective reports, make effective presentations and documentation, and give and receive clear instructions.

### PO 9

## The Pharmacist and society

• Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal issues and the consequent responsibilities relevant to the professional pharmacy practice.

### PO 10

### Environment and sustainability

• Understand the impact of the professional Pharmacy solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

## PO 11

### Life-long learning

• Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy these needs on an ongoing basis.

### 2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution

The institution evaluates Programme Outcomes (POs) and Course Outcomes (COs) to ensure educational excellence. POs focus on skills essential for employment, research, problem-solving, ethics, social responsibility, and environmental sustainability. COs assess students' knowledge, skills, and personal growth by the end of each course. Together, these outcomes aim to develop graduates who excel academically, ethically, socially, and professionally, preparing them to contribute to society and advocate for environmental sustainability.

# Tools for direct assessment

I and II sessional Examinations

Assignments

Attendance

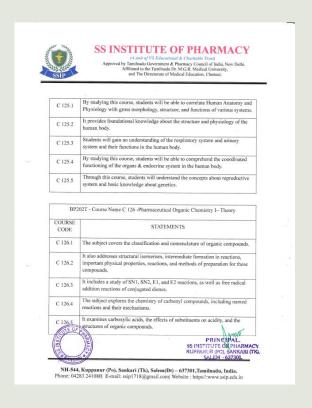
Laboratory Internal examination

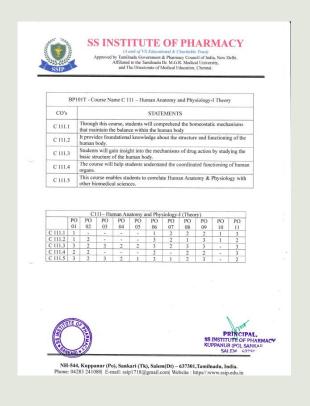
**End semester Examinations** 

# Tools for indirect assessment

**Course end Survey** 

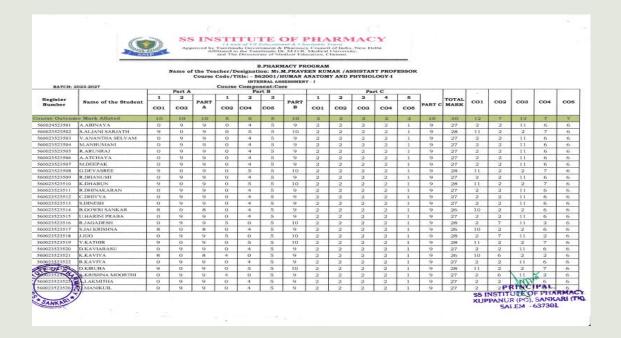
ASSE	SSMENT TOOLS	WEIGHTAGE	OVERALL WEIGHTAGE IN COs
DIRECT		INTERNAL ASSESSMENT TEST	48%
TOOLS	EXTERNAL ASSESSMENT TOOLS	UNIVERSITY RESULT ASSESSMENT	40%
INDIRECT	ASSESSMENT TOOLS	SURVEYS	12%



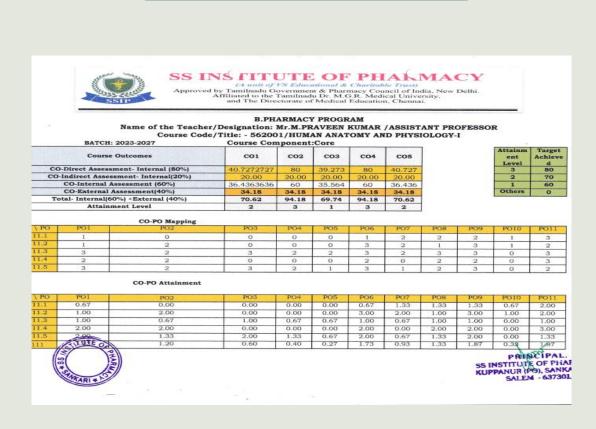


**Course outcomes** 

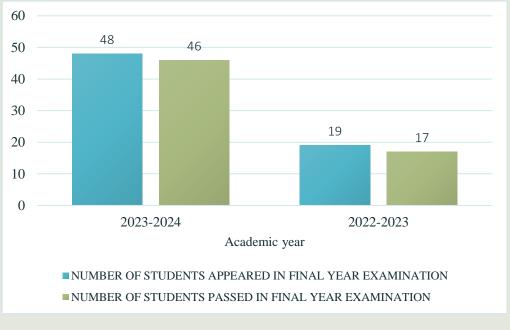
**CO-PO Mapping** 



### **CO-PO Attainment Sheet**



2.6.3 Pass percentage of Students during last five years (excluding backlog students)



95.83 % 2023-2024

89.47 % 2022-2023