
SS INSTITUTE OF PHARMACY



CRITERION III

RESEARCH, INNOVATIONS AND EXTENSION

CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

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2	Key Indicator 3.2- Innovation Ecosystem			
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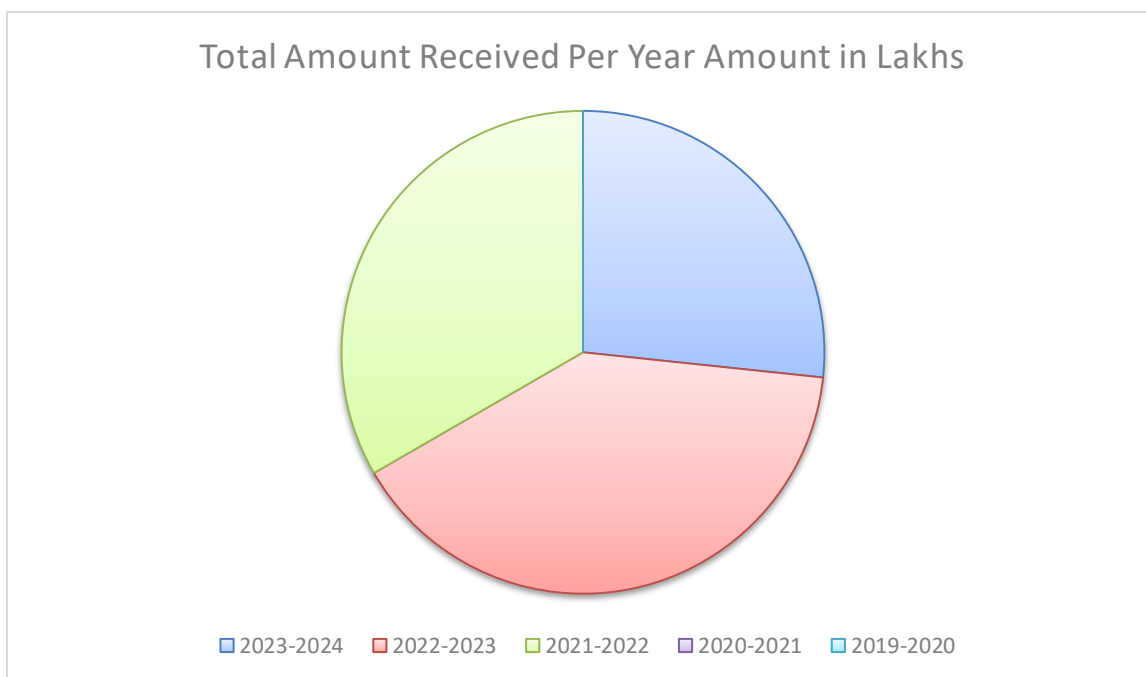
			from government / government recognized bodies	
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CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

Key Indicator 3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years

Academic year	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
Number of Research Project	4	6	5	-	-
Total Amount Received Per Year	4,85,000	5,88,000	5,27,000	-	-
Total Amount Received, (INR In Lakhs)	16				



CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

3.1.1 Grants received from government and non-government agencies for research projects / endowments in the institution during the last five years

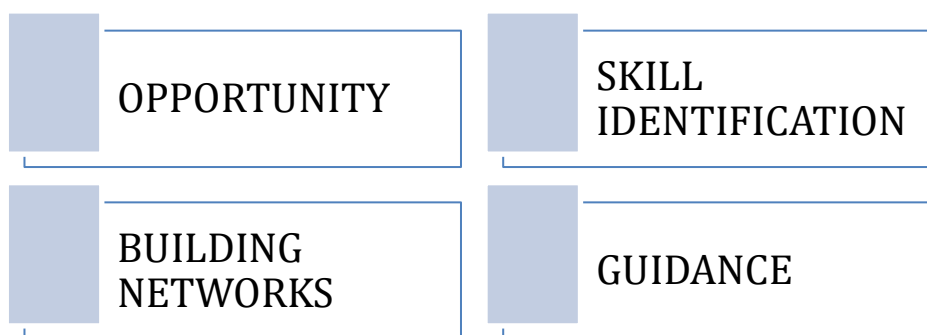
S.NO	Name of the Research Project	Name of the Principal Investigator/ Co-Investigator	Name of the Funding Agency	Type (Government/ Non Government)
1	Advanced Oral Care Formulation: Spirulina and Ginger-Infused Toothpaste and Gargle with Dual Benefits	Mrs.K.Sowndaraya Assistant Professor	Sterling lab Pvt LTD	Non Government
2	Optimization of a Phytoconstituent-Loaded Topical Gel: A Multifunctional Approach for Dermatological Applications	Mrs.M.Gomathi Assistant Professor	Madras Pharma Pvt LTD	Non Government
3	Activated Charcoal Plus: Formulation and Evaluation for Poison Management	Mrs .C.Kalaiselvi Professor	Pulse pharmaceutical Pvt LTD	Non Government
4	Formulation of Multifunctional Water Purification Tablets Using Sodium Dichloroisocyanurate and Zinc Oxide for Enhanced Efficacy	Mrs.Deepabharathi Assistant professor	Madras Pharma Pvt LTD	Non Government
5	Nicotine Detection Kit	Mrs.P.Nandhitha Assistant Professor	Arbor Pharmaceutical pvt LTD	Non Government
6	Formulation and Evaluation of MatrixType Transdermal Patches for Ibuprofen Delivery	Dr.G.Sekar Professor	Biomicon Pharma Pvt LTD	Non Government
7	Formulation of Herbal Cream Using Bauhinia tomentosa for AntiInflammatory Activity	Mrs.M.Gomathi Assistant Professor	IMIS pharmaceutical pvt ltd	Non Government
8	The Potential Of Pirandai (Cissus Quadrangularis) In Creating Medicinal Soaps For Sensitive	Mrs..M. Vanitha Assistant Professor	Nanocut therapeutics Pvt	Non Government

	Skin		LTD	
9	The Effect Of Parangipattai Smilax China) In Creating Medicinal Soap Disease Like For Skin Psoriasis	Mrs.P.Nandhitha Assistant Professor	IMIS Pharmaceuticals Pvt LTD	Non Government
10	The Magical Cap: Wearable ControlledRelease Device for Herbal Remedies	Mrs.C.Kalaiselvi Professor	Nanocent therapeutics Pvt LTD	Non Government
11	Enhancement of Acefenac Dissolution Rate through Solid Dispersion Technique Utilizing Various Carrier	Mr.T.Sampath Kumar Assistant professor	IMIS Pharmaceuticals Pvt LTD	Non Government
12	Formulation of Phytosomes Loaded with Alcoholic Extract of Cardio spermumhalicacabum– Soya Lecithin Phospholipid Complex for Enhanced Drug Delivery	Dr.C.Jothimanivannan Professor & Principal	Pulse Pharmaceuticals Pvt LTD	Non Government
13	Formulation of Fast Dissolving Oral Thin Film of Atorvastatin Calcium	Mr.S.Pravin kumar Assistant professor	Sterling Lab Pvt LTD	Non Government
14	Development and Validation of HPLC Method for Quantitative Determination of Nicorandil in Oral Solid Dosage Forms	Mrs.K.Sowndarya Associate professor	Biomicon Pharma India	Non Government
15	Biodegradable Spoon with Digestive Benefits: A Papain-Infused Innovation	Mr.T.Sampath Kumar Assistant professor	Arbor Pharmaceuticals	Non Government

CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

Key Indicator 3.2- Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident.



CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

PATENT RECEIVED

TITLE OF INVENTION	APPLICATION NUMBER	NAME OF APPLICANT	NAME OF COLLEGE	PUBLICATION DATE	COUNTRY
System for phytosomal formulation of Thuja Occidentalis extract for the treatment of Warts.	A61K 36/14	Dr. C. JOTHIMANIVANNAN	SS INSTITUTE OF PHARMACY, SANKARI	21/12/2022	GERMAN

CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

3.2.2 Number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Academic year	2023-24	2022-23	2021-22	2020-21	2019-20
Number of Events	11	11	10	5	8
Total No .of Events Conducted	45				



CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

3.2.2 Number of workshops/seminars/conferences conducted last five years

S.NO	NAME OF THE WORKSHOP/ SEMINAR	YEAR
1	Pharmacokinetic and Pharmacodynamic of Anti - cancer drugs	2023- 2024
2	Current scope of siddha formulations	
3	Pharmacy Career Guidance	
4	The role of medicinal chemistry in drug development	
5	Pharmacogenomics and personalized medicine	
6	Role of ethnobotany in drug discovery	
7	Smart drug delivery system	
8	Medicinal plants for treatment of COVID -19	
9	Novel technology adopted in pharmacovigilance	
10	Recent trends in the authentication of herbal drugs	
11	Role of biopharmaceutics in drug development and personalized medicine	
12	Green chemistry in pharmaceutical manufacturing development	2022- 2023
13	Neuropharmacology	
14	Phytotherapy and modern medicine	
15	Resources and supply for regulatory aspects of pharmaceutical development	
16	Chemistry of renewable biofuels	
17	Ethical issues in clinical trials	
18	Phytochemical analysis of medicinal plants	
19	Polymer Based drug delivery system	
20	Chemistry of forensic science	
21	Epigenetics in drug response	

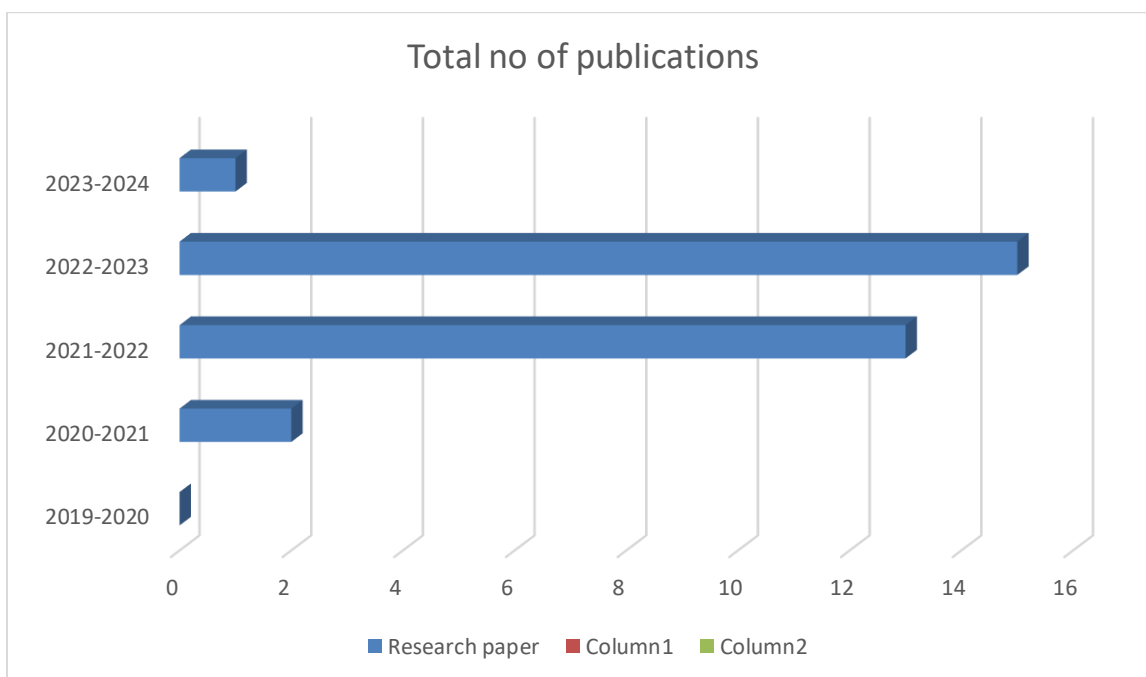
22	Herbal drug interactions with conventional medicines	
23	Pharmaceutical quality by design	2021- 2022
24	The chemistry of food and flavors	
25	Novel drug development	
26	Novel technology adopted in workshop on Eco pharmacognosy - A Philosophical approach	
27	Challenges and innovations in oral bioavailability of poorly soluble drugs	
28	The chemistry behind water purification technologies	
29	Artificial intelligence in pharmacology	
30	Standardization of herbal medicines	
31	Green chemistry approaches in pharmaceutical formulations	
32	Biomimetic chemistry: Inspiration from nature for chemical innovation	
33	Ayurvedic and traditional systems of medicine: A Pharmacognosy perspective	2020- 2021
34	Artificial intelligence in drug discovery	
35	Advanced spectroscopic techniques in phytochemical analysis	
36	Antiretroviral Therapy	
37	The Future of Artificial Intelligence in Chemistry	
38	Antibacterial pharmacology	2019- 2020
39	Advances in controlled release of drug delivery systems	
40	Analytical techniques in pharmaceutical quality control	
41	Nanotechnology in drug discovery	
42	Advances in plant tissue culture for secondary metabolite production	
43	Sustainable harvesting and conservation of medicinal plants	
44	3D Printing in pharmaceutical manufacturing	
45	Advanced drug delivery system ; Innovation and application	

CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

Key Indicator 3.3- Research Publication and Awards

3.3.1 Number of research papers published per teacher in the Journals as notified on UGC CARE list during the last five years

Academic Year	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
Number of Research Papers	1	15	13	2	0
Total Number of Research papers	31				



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S.NO	TITLE OF PAPER	NAME OF AUTHOR/S	DEPARTMENT	NAME OF JOURNAL	YEAR OF PUBLICATION	ISSN-NO
1	Nicotine Detection Kit	T.Sampath kumar	Pharmacognosy	International Journal of Pharmaceutical science review and research	2023-2024	0976-044X
2	A Review On Topical and Transdermal Delivery System	M.Gomathi	Pharmaceutics	International Journal of Pharmaceutical Research and Applications	2022-2023	2249-7781
3	Assessment Of Knowledge About Adverse Drug Reaction Among Pharmacy Students	S.Sasi Kumar	Pharmaceutical analysis	European Journal of Biomedical and Pharmaceutical sciences	2022-2023	2349-8870
4	Phytochemistry, Traditional Uses And Biological Activities Fig (FICUS CARICAL) Family (MORACEAE)- A Brief Review	T.Sampath kumar	Pharmacognosy	European Journal of Biomedical and Pharmaceutical sciences	2022-2023	2349-8870
5	A Review On Scorpion Venom: An Unrevealed Medicine For Human Ailments: Great Scope For Pharmaceutical Research	T.Sampath kumar	Pharmacognosy	European Journal of Biomedical and Pharmaceutical sciences	2022-2023	2349-8870
6	Advancements in Ocular In Situ Gelling System to Overcome Ocular Barriers	M.Gomathi	Pharmaceutics	International Journal of Pharmaceutical Research and Applications	2022-2023	2249-7781
7	A Comparative Pharmaceutical Study of Generic and Branded Tablet's Quality Control Tests	T.Sampath kumar	Pharmacognosy	European Journal of Biomedical and Pharmaceutical sciences	2022-2023	2349-8870

	According to Pharmacopoeias					
8	A Complete Review of Oldenlandia Umbellata Linn (impural) Plant	M.Vanitha	Pharmacology	World Journal of Pharmaceutical Research	2022-2023	2277-7105
9	Ethnobotanical Survey of Medicinal Plants From Sankari, Salem district, Tamilnadu, India	T.Sampath kumar	Pharmacognosy	International Journal of Pharmaceutical Research and Applications	2022-2023	2249-7781
10	Pharmacognostical and Pharmacological Profile of Cynodon Dactylon: a Review	T.Sampath kumar	Pharmacognosy	International Journal of Pharmaceutical Research and Applications	2022-2023	2249-7781
11	Assesment of Knowledge about Jaundice among People of Various Districts in Tamil Nadu	G.Sekar	Pharmacology	International Journal of Pharmaceutical Research and Applications	2022-2023	2249-7781
12	A Detailed Review on Preparative Methods and Applications of Transdermal Drug Delivery System	M.Gomathi	Pharmaceutics	Journal of Current Pharma Research	2022-2023	2230-7834
13	Less Symptoms, Less Awareness- A Deep view on Osteoporosis	T.Sampath kumar	Pharmacognosy	European Journal of Biomedical and Pharmaceutical sciences	2022-2023	2349-8870
14	A Review of Formulation and Evaluation of Tablets	M.Gomathi	Pharmaceutics	European Journal of Biomedical and Pharmaceutical sciences	2022-2023	2349-8870
15	Body Detoxification by Detox Water	T.Sampath kumar	Pharmacognosy	world journal of Pharmaceutical and life science	2022-2023	2454-2229
16	A Review on Development and characterization of Ethosomes- A novel	M.Gomathi	Pharmaceutics	Journal of Current Pharma Research	2022-2023	2230-7834

	Transdermal Drug Delivery System					
17	Pharmacognostical Studies and Pharmacological Activities of <i>Cissandora Infundibuliformis</i>	M.Vanitha	Pharmacology	International Journal of Research and Development in Pharmacy & Life Sciences	2021-2022	2278-0238
18	Pharmacological Activities of Barnyard Millets- a Review	C.Kalaiselvi	Pharmaceutics	World Journal of Pharmaceutical Research	2021-2022	2277-7105
19	Microbesads- A Review	M.Gomathi	Pharmaceutics	European Journal of Biomedical and Pharmaceutical sciences	2021-2022	2349-8870
20	Pharmacological Activities of <i>Centratherum Puntatum</i> Review	M.Vanitha	Pharmacology	World Journal of Pharmaceutical Research	2021-2022	2277-7105
21	Assessment of Knowledge About Pharmacovigilance Among Pharmacy Students	T.Sampath kumar	Pharmacognosy	World Journal of Pharmaceutical Research	2021-2022	2277-7105
22	Pharmacognostical Studies and Pharmacological Activities of <i>Beta Vulgaris</i> - Review	C.Kalaiselvi	Pharmaceutics	World Journal of Pharmaceutical Research	2021-2022	2277-7105
23	Pharmacological Activities of <i>Bougainvillea Glabra</i> Review	C.Kalaiselvi	Pharmaceutics	World Journal of Pharmaceutical Research	2021-2022	2277-7105
24	Pharmacological Activities of <i>Tabebuia Rosea</i> – A Review	M.Vanitha	Pharmacology	World Journal of Pharmaceutical Research	2021-2022	2277-7105
25	Pharmacological Activities of <i>Neolamarckia Cadamba</i> - a Review	C.Kalaiselvi	Pharmaceutics	World Journal of Pharmaceutical Research	2021-2022	2277-7105
26	Formulation and evaluation of Mefenamic acid solid dispersions	M.Gomathi	Pharmaceutics	World Journal of Pharmaceutical Sciences	2021-2022	2321-3310
27	Evaluation of	V.Sasi	Pharmaceutical	World Journal	2021-2022	2321-

	medication adherence on hypertensive patients in a tertiary care hospital	Kumar	analysis	of Pharmaceutical Sciences		3310
28	Comparative study of atorvastatin, metformin and telmisartan on high fat induced obesity in Albino Wistar rats	M.Vanitha	Pharmacology	World Journal of Pharmaceutical Sciences	2021-2022	2321-3310
29	A complete review on a complete medicinal plant: Cucurbita	T.Sampath kumar	Pharmacognosy	World Journal of Pharmaceutical Sciences	2021-2022	2321-3310
30	Formulation and Evaluation of in vitro antidiabetic Polyherbal tablets form some traditional used Herbs	T.Sampath kumar	Pharmacognosy	The Journal of Phytopharma cology	2020-2021	2320-480X
31	Review on Scope of Pharmacognosy graduate in various government research institute in India	T.Sampath kumar	Pharmacognosy	The Journal of Phytopharma cology	2020-2021	2320-480X

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3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

The total number of books and chapters in edited volume / books published and papers in national / international conference proceeding for the last five years is **NIL**.

Academic year	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
No. of Proceedings	NIL	NIL	NIL	NIL	NIL
Total no of Proceedings	NIL				

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Key Indicator 3.4- Extension Activities

3.4.1 Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.

ACTIVITIES CONDUCTED BY NSS

YEAR / UNIT	2023 - 2024
NSS	13

S.NO	NAME OF ACTIVITY
1	Educating public on proper use of inhaler
2	Public education on personal protective equipment
3	Public education on Antibiotic resistance
4	Public health awareness through street plays
5	Public lectures on the importance of vaccination
6	Safe motherhood and infant care
7	Awareness on seasonal diseases and prevention
8	Substance abuse prevention
9	The role of pharmacist I disaster management
10	Vector – borne disease
11	Pharmacy career guidance program
12	Vaccination drive in underserved communities
13	Safe disposal of medicine

CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

3.4.2 Awards and recognitions received for extension activities from government / government recognized bodies

1. Devannagoundanur village proudly presents this appreciation letter to SS Institute of Pharmacy, sankari for the conduct of five days (30.7.18 to 3.8.18) camp at our Village. During the five days camp Various activities like School campus cleaning, Blood donation camp, Veterinary camp, Tree Plantation, Grievances Collection activities were conducted. We appreciate the students Volunteers and staff coordinator for their effort during, the camp.

2. Blood doation camp at Kidayur panchayat on 03.01.2019. They cordially thanked for the voluntary blood donation camp organized by our Institution in their Village and appreciate our team for extending kind co-operation to make the camp a grand success

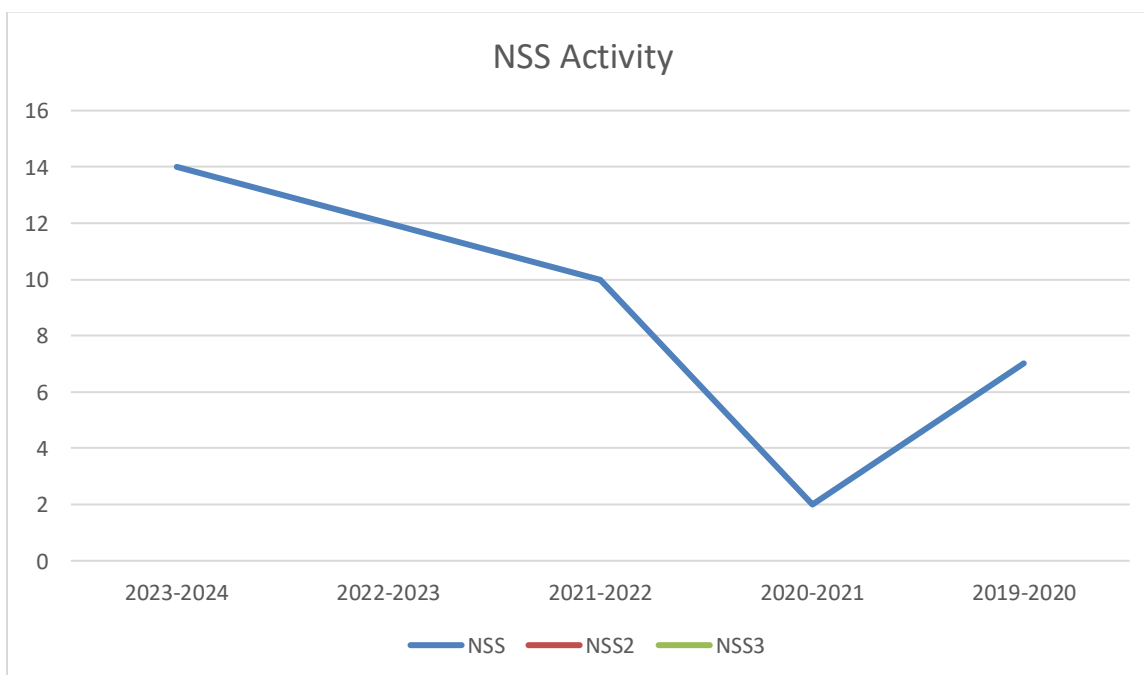
3. The certificate is gratefully presented to the SS Institute of Pharmacy, Sankari organized One day Campus Cleaning Program at Panchayat Union Middle School Devannagoundanur, on 02.02.2019.

4. This certificate is gratefully presented to the SS Institute of Pharmacy, Sankari organized Blood Donation Camp at The Department of Primary Health Center, Kidaiyur, on 03.01.2019.

CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

3.4.3. Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Academic Year	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
Number of Activities	14	12	10	2	7
Total No. of Activities	45				



CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

S.NO	NAME OF NSS ACTIVITIES	YEAR
1	Safe disposal of medicine	2023-2024
2	Vector borne disease	2023-2024
3	Pharmacy carrier guidance	2023-2024
4	Vaccination drive in underserved communities	2023-2024
5	The role of pharmacist in disaster management	2023-2024
6	Substance abuse prevention	2023-2024
7	Awareness on seasonal disease and prevention	2023-2024
8	Safe motherhood and infant care	2023-2024
9	Rational use of medication	2023-2024
10	Public lectures on the importance of vaccination	2023-2024
11	Public Health Awareness Program through Street Plays	2023-2024
12	Public Education on Antibiotic Resistance	2023-2024
13	Public Education Activity on Personal Protective Equipment	2023-2024
14	Proper Use of Inhalers	2023-2024
15	Geriatric Case and Medication Management	2022-2023
16	Organ Donation Awareness Program	2022-2023
17	Nutrition and Diet Counseling	2022-2023
18	National Unity Day Activities	2022-2023
19	Mobile Pharmacy Service for Remote Areas	2022-2023
20	Mental Health Awareness Program	2022-2023
21	Medication Safety and Adherence	2022-2023
22	Medication Disposal Awareness Program	2022-2023
23	Medication Counseling Sessions in Rural Areas	2022-2023
24	Health and Safety Training for Industrial Workers	2022-2023
25	Hygiene and Sanitation	2022-2023
26	Campaign on Safe Use of Herbal Supplements	2022-2023

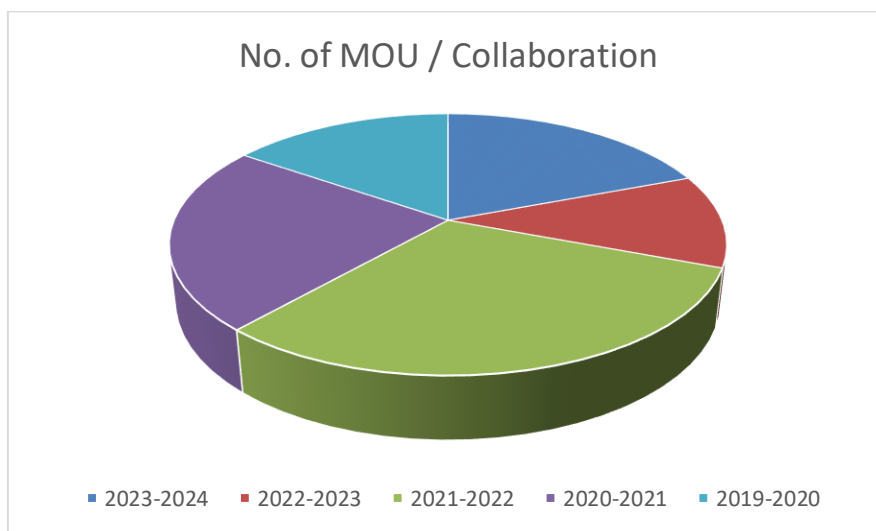
27	Healthy Pregnancy Campaign	2021-2022
28	Free Eye Check-up	2021-2022
29	Conduct First Aid Training in Nearby Schools	2021-2022
30	Drug-Induced Nutritional Deficiencies	2021-2022
31	Drug Abuse Awareness Program	2021-2022
32	Public Health Campaigns on Clean Drinking Water	2021-2022
33	Public Awareness on the Danger of Self-Medication	2021-2022
34	Chronic Disease Management	2021-2022
35	Campaigns on Healthy Aging	2021-2022
36	Awareness Program on Breastfeeding	2021-2022
37	Awareness Program on Poison Prevention	2020-2021
38	Health and Hygiene Awareness Program for Children	2020-2021
39	Awareness Program on Over-the-Counter Medication	2019-2020
40	Home Medication Review Services	2019-2020
41	Awareness Program on Drug-Drug Interaction	2019-2020
42	Adverse Drug Reaction Reporting Campaigns	2019-2020
43	Anti-Microbial Stewardship Campaign	2019-2020
44	Herbal Medicine Identification and Uses	2019-2020
45	Awareness Program on Chronic Kidney Diseases	2019-2020

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Key Indicator 3.5- Collaboration

3.5.1 The Number of MoU's Collaborations/Linkages for Faculty Exchange, Internship, Field Trip, on-the Job Training, Research and other academic activities during the last five years.

Academic Year	2023-2024	2022-2023	2021-2022	2020-2021	2019-2020
No of MOUs Collaboration/ Linkages	5	3	8	6	4
Total No of MOUs Collaboration/ Linkages	26				



CRITERION 3 : RESEARCH, INNOVATIONS AND EXTENSION

S.NO	LIST OF MOUs
1	Eazylink academy
2	Abirami pharmacy & Uma clinic
3	Abirami Medicals
4	Scitus Pharma
5	Madras Pharmaceuticals
6	Bluestone overseas consultants
7	Deepam Hospital
8	Devaki Amma Memorial college of pharmacy
9	Medplus Pharmacy
10	Arbor pharmaceuticals
11	Nalam Medicals
12	United college of pharmacy
13	Maruthi medical center hospital
14	Apollo pharmacy
15	Natural remedies private Ltd
16	Mylan Laboratories
17	Erode college of pharmacy
18	Omega healthcare
19	JKKM institute of health sciences college of pharmacy
20	SPMM hospital
21	Apex research and Development
22	Dr.Reddys Labs
23	Access Health care
24	JKKMMRFs Annai JKK Sampoorani ammal college of pharmacy
25	Swiss Garnier Corporation
26	Accenture solution Private ltd