

ADITYA

COLLEGE OF PHARMACY

Approved by AICTE & PCI - NEW DELHI, Affiliated to JNTUK KAKINADA
(Formerly known as Sri Sai Aditya Institute of Pharmaceutical Sciences & Research)

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Email: office@acop.edu.in

Website: www.acop.edu.in

Number of workshop/seminar/conference conducted on Research Methodology, Intellectual property rights (IPR) and Entrepreneurship during AY 2022-23

Year	Name of the seminar	Number of Participants	Date
2022-2023	National seminar on Principles of green chemistry in Analytical Research	85	27/10/2022



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JNTUK REG. NO. - 496322192

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Website: www.acop.edu.in, Email: office@acop.edu.in

3.2.2 Number of workshop/seminar/conference conducted on Research Methodology, Intellectual property rights (IPR) and Entrepreneurship during AY 2021-22

Year	Name of the seminar	Number of Participants	Date
2021-2022	National seminar on Recent trend in biological screening of Herbal drugs	68	14/03/2022



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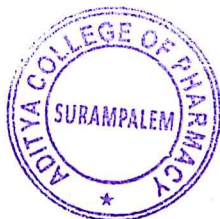
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Date: 25-10-2022

CIRCULAR

All the faculty and students are here by informed to attend **National Seminar on “Principles of Green Chemistry in Analytical Research”** which is held on 27-10-2022 at our institute. All are requested to assemble in the seminar hall by 12:00PM on 27-10-2022.



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Invitation

We cordially invite your auspicious presence
for the prestigious program.

ADITYA COLLEGE OF PHARMACY

A one day National seminar on

Principles of Green Chemistry in Analytical Research

27th October 2022 at 12:00PM

At seminar hall, Aditya College of Pharmacy

Organising Committee & Chief Patrons

Sri N Sesa Reddy

CHAIRMAN,
Aditya Group of Educational Institutions.

Sri N Satish Reddy

VICE CHAIRMAN,
Aditya Group of Educational Institutions.

Sri N K Deepak Reddy

SECRETARY,
Aditya Group of Educational Institutions.

Speaker details

Dr.A.Lakshmana Rao

Professor, Principal of VVIPS,
Gudvalleru, Andhra Pradesh.

Organising Director & Convenor

Dr. K Ravishankar

PRINCIPAL
Aditya College of Pharmacy.

Co-ordinator details: **Dr.K.Ramakrishna, Ph: +91 86390 02189**

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Website: www.acop.edu.in, Email: office@acop.edu.in

Date: 24-09-2022

To

Prof. Dr. A. Lakshmana Rao,

M.Pharm, PhD,
Principal of VVIPS.

Dear Sir,

It would be great privilege for us to invite you to deliver a talk on “**Principles of Green Chemistry in Analytical Research**” topic for our Master degree, B-pharm and Pharm –D students, your acceptance would be appreciated and we will make arrangements for tour lecture.

Thanking you for your kind cooperation.


Yours sincerely,

Dr. K. Ravi Shankar



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Website: www.acop.edu.in, Email: office@acop.edu.in

Event Report

Date: 27-10-2022

Title : Principles of Green Chemistry in Analytical Research
Speaker : Prof.Dr.A.Lakshmana Rao
Designation : Principal of VVIPS
Qualification : M.Pharm, PhD
Date of Seminar : 27-10-2022
Class of participants: B-Pharm, M -Pharm, Pharm-D
Venue : Seminar Hall, Aditya College of Pharmacy.

Total number of participants: 85

Description about the event:

Dr.A.Lakshman Rao addressed the students of pharmacy that Principles of Green Chemistry in Analytical Research the introduction of the dimension of green chemistry into the assessment of analytical methods should be a natural development trend in chemistry and should coincide with its general policy. He explained about some of the principles of green chemistry like prevention of waste generation, safer solvents and auxiliaries, design for energy efficiency, safer chemistry to minimize the potential of chemical accidents, development of instrumental methods is directly related to analytical chemistry. He discuss the Analytical chemistry is considered to be a small-scale activity, but this is not always true in the case of controlling and monitoring laboratories whose number of runs performed is high. This makes an analytical laboratory comparable with the fine chemicals or pharmaceutical industry. The use of instrumental methods instead of wet chemistry, automation, and minimization is a new trend in analytical chemistry, making this branch of chemistry more sustainable. He focus on Special attention is given to capillary electrophoresis (CE), which provides a very good opportunity to improve analytical chemistry by replacing many chromatographic methods that consume large volumes of solvents. The choice of different solvents and micronization in analytical chemistry is also discussed.



Dr. A. Lakshman Rao
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He discuss about Green chemistry is important approach in chemical sciences that efficiently uses renewable raw materials, eliminating waste and avoiding the use of toxic and hazardous reagents and solvents in the manufacture and application of chemical products. Green chemistry takes into account the environmental impact and seeks to prevent or lessen that impact through several key principles outlined below. He explained about 12 key principles of green chemistry as follows

1. Prevention. It is better to prevent waste formation than to treat it after it is formed.
2. Atom economy. Design synthetic methods to maximize incorporation of all material used into final product.
3. Less hazard. Synthetic methods should, where practicable, use or generate materials of low human toxicity and environmental impact.
4. Safer chemicals. Chemical product design should preserve efficacy whilst reducing toxicity.
5. Safer solvents. Avoid auxiliary materials - solvents, extractants - if possible, or otherwise make them innocuous.
6. Energy efficiency. Energy requirements should be minimized: conduct synthesis at ambient temperature and pressure.
7. Renewable feed stocks. Raw materials should, where practicable, be renewable.
8. Reduce derivatives. Unnecessary derivatization should be avoided where possible.
9. Smart catalysis. Selectively catalyzed processes are superior to stoichiometric processes.
10. Degradable design. Chemical products should be designed to be degradable to innocuous products when disposed of and not be environmentally persistent.
11. Real-time analysis for pollution prevention. Monitor processes in real time to avoid excursions leading to the formation of hazardous materials.
12. Hazard and accident prevention. Materials used in a chemical process should be chosen to minimize hazard and risk for chemical accidents, such as releases, explosions, and fires.



Coordinator Signature



Principal



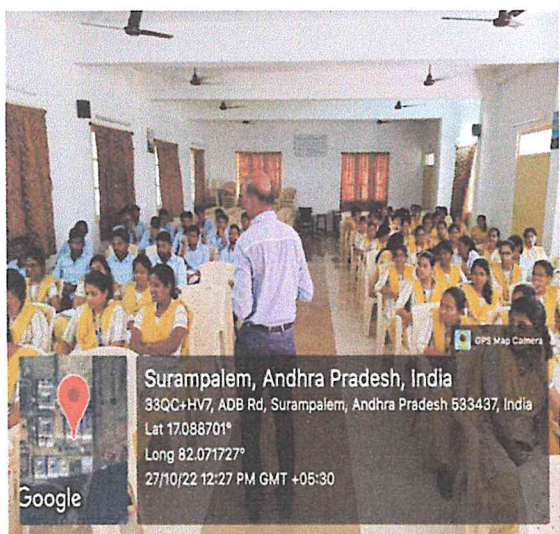
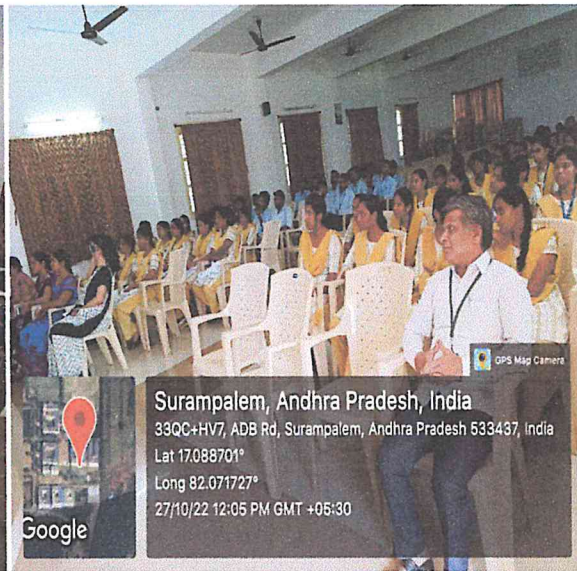
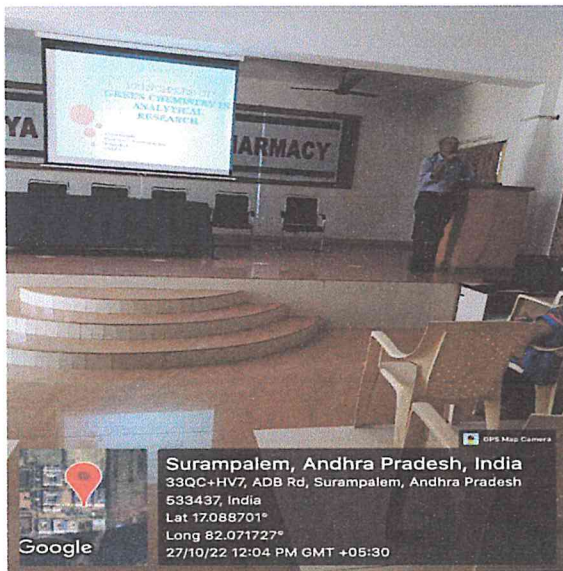
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GALLERY OF NATIONAL SEMINAR ON RESEARCH METHADODOLOGY



Deven Chavhan
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Website: www.acop.edu.in, Email: office@acop.edu.in

Title of the Seminar: Principles of Green Chemistry Date: 23/10/2022
In Analytical research.

LIST OF STUDENTS ATTENDED

S.No	Name of the Student	Signature
1	K. Divya	Divya
2	P.V. Sowjanya	Sowjanya
3	G. Manasa	Manasa
4	K. Chakradhar	Chakradhar
5	P. Bala Bhaskarudu.	P. Bhaskar
6	Sangeeta	Sangeeta
7	M. Pallavi	M. Pallavi
8	U. Kumari	Kumari
9	Ashok kumar B. Anand	Ashok
10	Ch. S. V. Ceela Kumar	Ch. S. V. Ceela
11	A. Sujatha	Sujatha
12	P. Lakshmi Tulasi	P. Tulasi
13	Ch. Dayakar	Ch. Dayakar
14	Bhupenabai kumari	Bhupenabai
15	R. Barath kumar	R. Barath
16	V. Roshitha	V. Roshitha
17	S. Mariya Rani	Rani
18	N. Sandhya	sandhya
19	Ch. Bala Sri	Ch. Bala Sri
20	Ch. Nagasurinder	Naga Surinder
21	B. Jayanti	Jayanti
22	K. Kavya Sindhu	K. Kavya
23	S. Aditya	Aditya
24	S. Anil Kumar	S. Anil Kumar
25	P. Tejus	P. Tejus
26	V. Anil Kumar	V. Anil Kumar

S.No	Name of the Student	Signature
27	M.S. Sailaja	M.S. Sailaja
28	M. Neha	M. Neha
29	M. Priyanka	M. Priyanka
30	Bikash Kumar Raniyar	Bikash
31	Koripalli Girish Sai Sampath	Sampath
32	K. L. Narayana	K.L. Narayana
33	D. Gouni Priya	D. Gouni Priya
34	M.D. Anagiri	M.D. Anagiri
35	B. Likhitha	B. Likhitha
36	N. Divyashri	Divyashri
37	D. Seetha Lakshmi	Seetha
38	D. Mahalakshmi	Maha
39	P. Sireesha	Sireesha
40	T. Satya	Satya
41	S. Kalyani	S. Kalyani
42	P. Seetha	P. Seetha
43	B. Ganga	B. Ganga
44	V. Prasanna	Prasanna
45	A. Manogna	Manogna
46	G. Veeramani	Veeramani
47	O. Kavya	O. Kavya
48	B. Divya	Divya
49	R. Ashwini	Ashwini
50	K. Arvika	Arvika
51	Y. Prashanthi	Prashanthi
52	P. Likhitha	Likhitha
53	Sai Shamani	Sai Shamani
54	M. Rupika	Rupika
55	L. Sujatha	Sujatha
56	K. Shyan Reddy	Shyan Reddy
57	K. Chakra	Chakra
58	M. Vivek	Vivek
59	M. Vinay Kumar	Vinay Kumar
60	K. Sriyam	Sriyam

Total No. of Students attended: 60

Signature of the coordinator: 

S.No	Name of the Student	Signature
61.	N. Durga Prasad	Durga Prasad
62	B. Vasanth	Vasanth
63.	P. Rohith Yadav	Rohith
64.	Golden Kupthe	Golden
65	Sanil Kumar	Sanil
66.	Divesh Singh	D. Singh
67.	L. Vassha	Vassha
68.	Ritesh jana	Ritesh
69.	A. Kalyani	Kalyani
70	Gorda Manasa	Manasa
71	Jayantii Kolati	Jayanthi
72	Rahul chaudhary	Rahul
73	SEELAM HARSHITHA	harshitha
74	DEEPA BHAT	Deepa
75	katta Bhargavi	Bhargavi
76	kumar mayank	M. . .

Total No. of Students attended: 76

Signature of the coordinator: [Signature]