Approved by AICTE & PCI - NEW DELHI, Affiliated to JNTUK KAKINADA

(Formerly known as Sri Sai Aditya Institute of Pharmaceutical Sciences & Research)

Ph: 99498 76664 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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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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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.



PRINCIPAL

PRINCIPAL Aditya College of Pharmacy SURAMPALEM-533 437



(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 Comittee & Chief Patrons

Sri N Sesha Reddy

CHAIRMAN.

Aditya Group of Educational Institutions.

Sri N Satish Reddy

VICE CHAIRMAN, ditya 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, Gudlvalleru, Andhra Pradesh.

Organising Director & Convenor

Dr. K Ravishankar

PRINCIPAL

Aditya College of Pharmacy.

Co-ordinator details:

Dr.K.Ramakrishna, Ph: +91 86390 02189

Aditya College of Pharma



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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.

> Duan'i Aditya College of Pharmac

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

OCacan and Principal

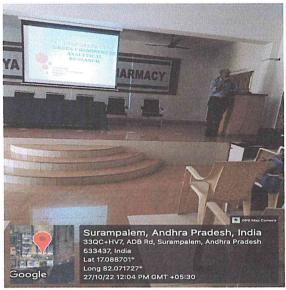
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ADITYA

COLLEGE OF PHARMACY

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GALLERY OF NATIONAL SEMINAR ON RESEARCH METHADOLOGY



Aditya College of Pharmacy
SURAMPALEM-522





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Title of the Seminar: Populiples of Green Chemistonin Analytical Research

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Poinciples of Green Chemistry Date: 23/10/2022

Title of the Seminar:

LIST OF STUDENTS ATTENDED

S.No	Name of the Student	Signature
1	K. Ohya	Dun
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Total No. of Students attended:	90
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Signature of the coordinator:

S.No	Name of the Student	Signature
61.	N. Durga Grasad	Dance Brajed
62	B. Vosant	doesth
63.	p. Rohith Yadav	Lohith
бч.	Golden aughtre	Golden.
65	Sanil Kuman,	Sand
66.	Divesh Singh	D. Sing
67.	L. Vorsha	Dorphe.
68.	Ritech jana	Roter
69.	A. Kalyani	Rayan
70	Gorla Manasa	Markasey.
71	Tayanthi Kolati	Joyanthi
	Robul chaudhary	Dahul
	SEELAM HARSHITHA	harshitha
74	DEEPA BHAT	Deepa/
75	katta Bhargavi	Bharagarin
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Total No. of Students attended:	76

Signature of the coordinator:

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