



SS INSTITUTE OF PHARMACY

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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.

REF.NO:SSIP/ REQ/2019/002

Date: 20/06/2019

From

Department of Pharmaceutics,
SS institute of pharmacy,
Sankari, Salem (DIST) - 637301.

To

The principal,
SS institute of pharmacy,
Sankari, Salem (DIST) – 637301.


Subject: Letter for requesting permission to conduct **ADD ON COURSE** -Reg.

Respected sir,


We are requesting you to grant permission to conduct add-on course in the seminar hall on **01/07/2019 to 08/07/2019**. We wish to conduct add on course on the title “**Environmental Sustainability In Pharmaceutical Industry**”. This add-on course program would be a great opportunity for students to learn and that would help to shape the students.

Thanking you,

Yours truly,


PRINCIPAL,
SS INSTITUTE OF PHARMACY,
KUPPANUR (PO), SANKARI (TK),
SALEM - 637301




PRINCIPAL,
SS INSTITUTE OF PHARMACY,
KUPPANUR (PO), SANKARI (TK),
SALEM - 637301

NH-544, Kuppanur (Po), Sankari (Tk), Salem(Dt) – 637301, Tamilnadu, India

Phone : 04283 241080 | E-mail : ssip1718@gmail.com | Website : www.ssip.edu.in



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DATE: 27/05/2019

CIRCULAR

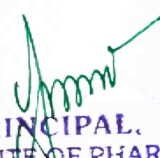
This is to inform that will B.PHARM students have the schedule of following value - added course to be conducted by our SS Institute of Pharmacy and it as mentioned below.

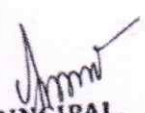
COURSE NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
ENVIRONMENTAL SUSTAINABILITY IN PHARMACEUTICAL INDUSTRY	03/06/2019 to 18/06/2019	36 HOURS	SEMINAR HALL	D.SATHYA MURTHY

All the above-mentioned students must enroll and actively participate in the course without fail.

Note: Certificates will be issued for the eligible students after completion of the course and examination.




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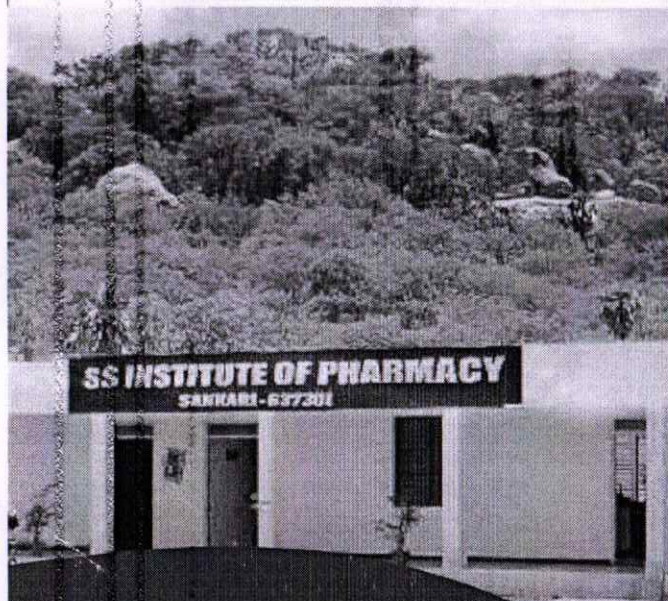
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**SS INSTITUTE
OF PHARMACY,
SANKARI**

DEPARTMENT OF
PHARMACEUTICS



VENUE : SSIP SEMINAR HALL
DATE : 01.07.2019 - 08.07.2019
TIME : 10.00AM - 01.00PM

Topics-

1. *Pharmaceutical environmental science*
2. *Green chemistry*
3. *Sustainable pharmacy practice*

PHONE : 6382861553, 7598238661, 9443026056
E-MAIL : SSIP1718@GMAIL.COM
WEBSITE: WWW.SSIP.EDU.IN

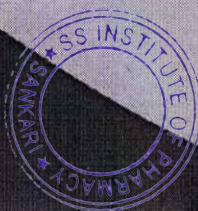
ADDRESS: SS INSTITUTE OF PHARMACY,
SANKARI, SALEM - 637 301

COURSE TITLE

ENVIRONMENTAL SUSTAINABILITY IN PHARMACEUTICAL INDUSTRY

Resource person

D.Sathyamurthy
M.Pharm,
Professor
SS Institute of Pharmacy



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SYLLABUS

ENVIRONMENTAL SUSTAINABILITY IN THE PHARMACEUTICAL INDUSTRY

Sl. No.	Topic	DATE
1	Foundations of Environmental Sustainability <ul style="list-style-type: none">- Introduction to Environmental Sustainability- Green Chemistry in Pharmaceutical Manufacturing- Sustainable Sourcing of Raw Materials	1/7/2019
2	Water and Energy Management <ul style="list-style-type: none">- Water Conservation and Management- Energy Efficiency and Renewable Energy	2/7/2019
3	Waste and Emissions Management <ul style="list-style-type: none">- Waste Reduction and Management- Carbon Footprint Reduction- Sustainable Packaging and Labeling	3/7/2019- 4/7/2019
4	Sustainable Supply Chain and Regulatory Compliance <ul style="list-style-type: none">- Supply Chain Sustainability- Regulatory Compliance and Environmental Reporting	5/7/2019
5	Innovation and Future Directions <ul style="list-style-type: none">- Innovative Technologies for Environmental Sustainability- Future Trends and Opportunities in the Pharmaceutical Industry	6/7/2019- 8/7/2019

RESOURCE PERSON: Dr.DSathiyamurthy

TOTAL HOURS:36Hrs



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ADD ON / CERTIFICATE VALUE ADDED COURSES ACADEMIC YEAR 2019-2020

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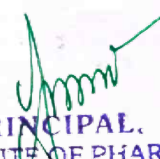
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ACADAMIC YEAR 2019-2020

S.NO	NAME OF ADD ON CERTIFICATES PROGRAMS	COURSE CODE	NO OF STUDENT ENROLLED	TYPE OF ADD ON CERTIFICATES PROGRAMS
1.	Robotics & automation In drug manufacturing	19RADM01	23	Self-framed course
2.	Environmental Sustainability in Pharmaceutical industry	19ESPI02	11	Self-framed course
3.	Strategic management In the pharmaceutical industry	19SMP103	12	Self-framed course
4.	3D printing in Pharmaceutical	193DPP04	23	Self-framed course
5.	Pharmaceutical Project management	19PPM05	50	Self-framed course




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ADD ON COURSE – ENROLLMENT LIST

NAME OF ADD ON COURSE : ENVIRONMENTAL SUSTAINABILITY IN
PHARMACEUTICAL INDUSTRY

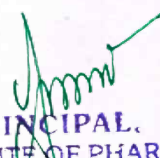
COURSE INSTRUCTORS : Dr .D.SATHYAMOORTHY

YEAR OFFERED : 2nd sem B.Pharm

COURSE DURATION : 36 hrs

S.NO	NAME OF STUDENT	REGISTER NO	COURES
1.	A.ABDUL AZIM	561897201	1 st B.Pharm
2.	K.ARUNKUMAR	561897202	1 st B.Pharm
3.	K.ARUNKUMAR	561897203	1 st B.Pharm
4.	V.CHANDURU	561897204	1 st B.Pharm
5.	L.DHINESHKUMAR	561897205	1 st B.Pharm
6.	S.GANESAN	561897206	1 st B.Pharm
7.	M.GNANAPRAKASH	561897207	1 st B.Pharm
8.	K.GOKULNATH	561897208	1 st B.Pharm
9.	S.GOKUL RAJ	561897209	1 st B.Pharm
10.	P.HARI VISHVA	561897210	1 st B.Pharm
11.	B.JEEVANANTH	561897211	1 st B.Pharm




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(2)

Repeat

ADD ON COURSE – ATTENDANCE LIST

NAME OF ADD ON COURSE : ENVIRONMENTAL SUSTAINABILITY IN
PHARMACEUTICAL INDUSTRY

COURSE INSTRUCTORS : Dr.D.SATHYAMOORTHY

YEAR OFFERED : 2nd sem B.Pharm

COURSE DURATION : 36 hrs

S.NO	NAME OF THE STUDENT	REGISTER NO	ATTENDANCE							
			1/7/19	2/7/19	3/7/19	4/7/19	5/7/19	6/7/19	8/7/19	
1.	A.ABDUL AZIM	561897201	AD	AA	AD	AA	AD	AA	AA	
2.	K.ARUNKUMAR	561897202	Arun	Arun	Arun	Arun	Arun	Arun	Arun	
3.	K.ARUNKUMAR	561897203	Arun	Arun	Arun	Arun	Arun	Arun	Arun	
4.	V.CHANDURU	561897204	Chand	Chand	Chand	Chand	Chand	Chand	Chand	
5.	L.DHINESHKUMAR	561897205	L.Dhinesh	L.Dhinesh	L.Dhinesh	L.Dhinesh	L.Dhinesh	L.Dhinesh	L.Dhinesh	
6.	S.GANESAN	561897206	S.G	S.G	S.G	S.G	S.G	S.G	S.G	
7.	M.GNANAPRAKASH	561897207	Gnan	Gnan	Gnan	Gnan	Gnan	Gnan	Gnan	
8.	K.GOKULNATH	561897208	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	
9.	S.GOKUL RAJ	561897209	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	
10.	P.HARI VISHVA	561897210	P.Hari	P.Hari	P.Hari	P.Hari	P.Hari	P.Hari	P.Hari	
11.	B.JEEVANANTH	561897211	B.Jeeva	B.Jeeva	B.Jeeva	B.Jeeva	B.Jeeva	B.Jeeva	B.Jeeva	



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2

ADD ON COURSE	ENVIRONMENTAL SUSTAINABILITY IN PHARMACEUTICAL INDUSTRY
DEPARTMENT	PHARMACEUTICS
ACADEMIC YEAR	2019-2020
DATE	01/07/2019 to 08/07/2019
VENUE	SEMINAR HALL
NAME: <i>Dhinesh Kumar . L</i>	COURSE: <i>II - Sem</i>

ANSWER ALL THE QUESTIONS:

DATE:08/07/2019

MULTIPLE CHOICE QUESTIONS

MARKS:15

1. What is the primary goal of green chemistry in pharmaceutical manufacturing?

- a) To reduce costs
- b) To increase efficiency
- ☒ c) To minimize environmental impact
- d) To improve product quality

2. Which of the following is a sustainable sourcing practice?

- a) Purchasing raw materials from local suppliers
- b) Selecting suppliers based on price alone
- c) Using recycled materials whenever possible
- ☒ d) All of the above

3. What is the most effective way to reduce water usage in pharmaceutical manufacturing?

- a) Implementing water-saving technologies
- b) Reducing production volumes
- ☒ c) Increasing water recycling
- d) All of the above

4. Which renewable energy source is most suitable for pharmaceutical manufacturing?

- ☒ a) Solar power
- b) Wind power
- c) Geothermal energy
- d) Biomass energy

13



[Signature]
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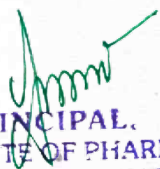
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5. What is the primary benefit of reducing waste in pharmaceutical manufacturing?
 - a) Cost savings
 - b) Increased efficiency
 - c) Environmental protection
 - ☒ d) All of the above
6. How can pharmaceutical companies reduce their carbon footprint?
 - a) By increasing energy efficiency
 - b) By transitioning to renewable energy sources
 - c) By reducing water usage
 - ☒ d) All of the above
7. What is the most effective way to promote sustainability throughout the pharmaceutical supply chain?
 - a) By conducting regular audits
 - b) By implementing sustainable procurement practices
 - c) By engaging with suppliers
 - ☒ d) All of the above
8. Which of the following is a regulatory requirement for environmental reporting in the pharmaceutical industry?
 - ☒ a) EPA reporting
 - b) FDA reporting
 - c) OSHA reporting
 - d) All of the above
9. What is the primary benefit of using eco-friendly packaging in the pharmaceutical industry?
 - ☒ a) Cost savings
 - b) Increased efficiency
 - c) Environmental protection
 - d) All of the above
10. Which innovative technology has the potential to significantly reduce waste in pharmaceutical manufacturing?
 - ☒ a) 3D printing
 - b) Nanotechnology
 - c) Biotechnology
 - d) All of the above




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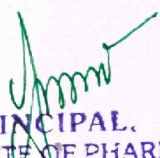
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11. How can pharmaceutical companies measure their environmental sustainability performance?
- a) By tracking energy usage
 - b) By monitoring water consumption
 - c) By measuring waste reduction
 - ☒ d) All of the above
12. What is the primary goal of sustainable labeling in the pharmaceutical industry?
- a) To reduce costs
 - b) To increase efficiency
 - ☒ c) To minimize environmental impact
 - d) To improve product quality
13. Which of the following is a sustainable practice in pharmaceutical manufacturing?
- a) Using single-use plastics
 - b) Implementing recycling programs
 - c) Reducing energy consumption
 - ☒ d) All of the above
14. How can pharmaceutical companies engage with stakeholders on environmental sustainability issues?
- a) By conducting regular surveys
 - b) By hosting stakeholder meetings
 - c) By publishing sustainability reports
 - d) All of the above
15. What is the primary benefit of implementing an environmental management system (EMS) in pharmaceutical manufacturing?
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ADD ON COURSE	ENVIRONMENTAL SUSTAINABILITY IN PHARMACEUTICAL INDUSTRY
DEPARTMENT	PHARMACEUTICS
ACADEMIC YEAR	2019-2020
DATE	01/07/2019 to 08/07/2019

ANSWER KEY:

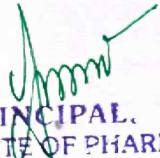
DATE:08/07/2019

MULTIPLE CHOICE QUESTIONS

MARKS:15

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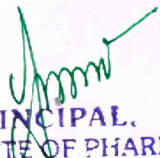
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 - c) By engaging with suppliers
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 - d) **All of the above**

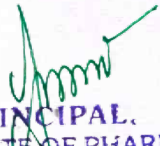
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 - a) To reduce costs
 - b) To increase efficiency
 - c) **To minimize environmental impact**
 - d) To improve product quality

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 - b) Implementing recycling programs
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ADD ON COURSE – MARK LIST

NAME OF ADD ON COURSE : ENVIRONMENTAL SUSTAINABILITY IN
PHARMACEUTICAL INDUSTRY

COURSE INSTRUCTORS : Dr .D.SATHYAMOORTHY

YEAR OFFERED : 2nd sem B.Pharm

COURSE DURATION : 36 hrs

S.NO	NAME OF STUDENT	REGISTER NO	MARKS (15)	PERCENTAGE (%)
1.	A.ABDUL AZIM	561897201	15	100%
2.	K.ARUNKUMAR	561897202	14	93%
3.	K.ARUNKUMAR	561897203	13	86%
4.	V.CHANDURU	561897204	13	86%
5.	L.DHINESHKUMAR	561897205	13	86%
6.	S.GANESAN	561897206	14	93%
7.	M.GNANAPRAKASH	561897207	13	86%
8.	K.GOKULNATH	561897208	13	86%
9.	S.GOKUL RAJ	561897209	13	86%
10.	P.HARI VISHVA	561897210	15	100%
11.	B.JEEVANANTH	561897211	13	86%

TOTAL NUMBER OF STUDENT : 11

TOTAL NUMBER OF PERCENTAGE : 89.9%



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ADD ON COURSE : SUMMARY REPORT

Course code and Name : 19ESP02/ Environmental Sustainability In Pharmaceutical Industry

Date Of Add On Programme : 01/07/2019 to 08/07/2019

Course Duration : 36 Hours

Year Offered : 2nd Sem B.Pharm

Course Instructors : D.Sathya murthy., M.Pharm.

Course Outcomes :

- The ability to analyze the environmental impact of pharmaceutical processes, develop strategies for reducing waste and energy consumption, and implement sustainable practices in drug manufacturing and distribution.
- Additionally, you'd delve into regulatory requirements and the role of innovation in achieving sustainability goals.

Course Type : Add on Course

Assessment Mode:

Total Duration : 36 Hours

Number of Participants : 11

Scheme of Exam : MCQ type, offline Mode

Date of Exam : 08/07/2019

Course Coordinator

3



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NH 47 coimbatore Highway, Kuppanur(Po),Sankari(T.k),Salem(D.T),Tamil Nadu - 637 301



VALUE ADDED COURSE

Organised by

DEPARTMENT OF PHARMACEUTICS

Certificate of Participation

S. GOKUL RAJ

Has appreciated for his /her participation in VALUE ADDED COURSE On
ENVIRONMENTAL SUSTAINABILITY IN PHARMACEUTICAL INDUSTRY

01/07/2019 TO 08/07/2019

3
COORDINATOR



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SS INSTITUTE OF PHARMACY,
KUPPANUR (PO), SANKARI (TK),
SALEM - 637301

[Signature]
PRINCIPAL



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3
COORDINATOR



[Signature]
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STUDENT FEEDBACK FORM

STUDENT NAME: M. GINANAPRAKASH. DATE: 08.07.2019

YEAR/COURSE: IInd B.Pharm

NAME OF THE ADD ON COURSE: Environmental sustainability in pharmaceutical industry.

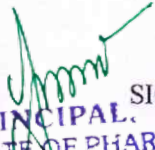
COURSE CODE: 19ESPI02

DURATION: 36 hrs.

EVALUATE HONESTLY:

Questions	Excellent	Good	Fair	Poor
How was the objectives of the training		✓		
How satisfied are you with our seminar	✓			
How would you rate the clarity and effectiveness of the presenter's delivery		✓		
Was the seminar duration appropriate			✓	
How engaging and interactive was the seminar	✓			
Usefulness of the information provided		✓		
Overall quality of session	✓			




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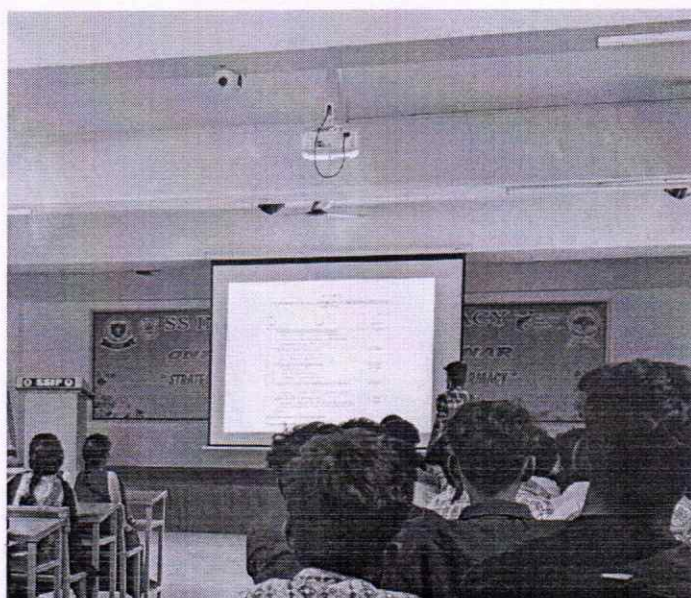
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PHOTOGRAPH

DATE : 03/07/2019

ENVIRONMENTAL SUSTAINABILITY IN PHARMACEUTICAL INDUSTRY

NAME OF ADD ON COURSE : ENVIRONMENTAL SUSTAINABILITY IN
PHARMACEUTICAL INDUSTRY
COURSE INSTRUCTORS : DR .D.SATHYAMOORTHY
YEAR OFFERED : 2nd SEM B.PHARM
COURSE DURATION : 36 HRS



Add-on course regarding the Topic Application of Environmental Sustainability In Pharmaceutical Industry conducted on 03/07/2019, the speech delivered By **D.Sathya murthy.,M.Pharm**, SSIP which was an interactive session and students could able to understand the Application of Environmental Sustainability In Pharmaceutical Industry in the fields of pharmaceutical sciences



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