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REF.NO:SSIP/ REQ/2019/001

Date: 24/05/2019

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 grand permission to conduct add-on course in the seminar hall on 3/6/2019 to 18/6/2019. We wish to conduct add on course on the title "Robotics and Automation In Drug Manufacturing". 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,

Ymmit

PRINCIPAL.

SS INSTITUTE OF PHARMACY.

KUPPANUR (PO), SANKARI (TK).

SALEM - 637301

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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
ROBOTICS AND AUTOMATION IN DRUG MANUFACTURING	03/06/2019 to 18/06/2019	35 HOURS	SEMINAR HALL	DR.C.JOTHIMANIVANNAN

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.

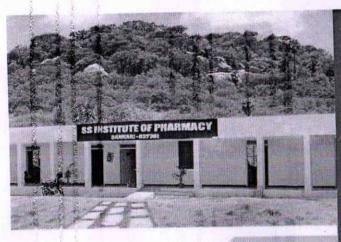
SANKARI*

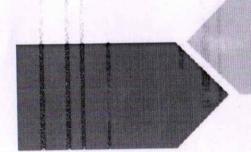
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DEPARTMENT OF PHARMACEUTICS

VENUE: SSIP Seminar half

TIME :10:00am-01:00pm

COURSE TITLE

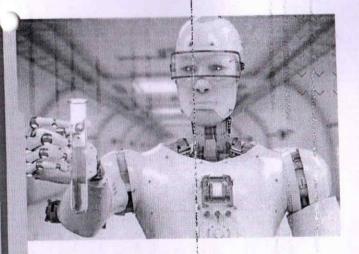
ROBOTICS AND AUTOMATION IN DRUG MANUFACTURING

RESOURCE PERSON

Dr C.Jothimanivannan M.Pharm,Ph.D Principal, Professor SS Institute of pharmacy.

TOPICS

- Robotics in pharmaceutical manufacturing
- Automation in drug formulation and development
- 3 Automated Quality control
- Robotics in sterile and Aseptic manufacturing



Phone: 9443026056

E-mail: ssip1718@gmail.com Website: www.ssip.edu.in

ADDRESS:

SS Institute of Pharmacy, Sankari ,Salem-637 301





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SYLLABUS ROBOTICS AND AUTOMATION IN DRUG MANUFACTURING INDUSTRY

Sl. No.	Topic	DATE	
1	Introduction to Robotics and Automation in Pharmaceuticals -Automated Drug Compounding - Automated Dispensing Systems	3/6/2019 - 4/6/2019	
2	Robotics in Quality Control and Packaging - Robotic Inspection and Packaging - Automated Labeling and Serialization	5/6/2019 - 7/6/2019	
3	Advanced Technologies in Manufacturing - Machine Learning in Pharmaceutical Manufacturing - Artificial Intelligence (AI) in Pharmaceutical Manufacturing	10/6/2010- 12/7/2019	
4	Laboratory and Facility Automation - Robot-Assisted Laboratory Automation - Automated Cleaning and Sanitization	13/6/2010- 14/6/2019	
5	Collaborative Robotics and Process Optimization - Collaborative Robots (Cobots) in Pharmaceutical Manufacturing - Process Analytical Technology (PAT	17/6/2019- 18/6/2019	

RESOURCE PERSON: Dr. C. Jothimanivannan., M. Pharm., Ph.D.,

TOTAL HOURS:35 Hrs

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



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ACADAMIC YEAR 2019-2020

S.NO	NAME OF ADD ON CERTIFICATES PROGRAMS	COURSE CODE	NO OF STUDENT ENROLLED	ON CERTIFICAT PROGRAMS
1.	Robotics & automation In drug manufacturing	19RADM01	23	Self-framed course
2.	Environmental Sustainability in Pharmaceutical industry	19ESPI02	11	Self-framed course
3.		19SMPI03	12	Self-framed course
4.		193DPP04	23	Self-framed course
5.		19PPM05	50	Self-framed course

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ADD ON COURSE - ENROLLMENT LIST

NAME OF ADD ON COURSE: ROBOTICS & AUTOMATION IN

DRUG MANUFACTURING

COURSE INSTRUCTORS

: Dr .C.Jothimanivannan

YEAR OFFERED

: 2nd sem B.Pharm

COURSE DURATION

: 35 hrs

S.NO	NAME OF STUDENT	REGISTER NO	COURES	
1.	A.ABDUL AZIM	561897201	1st B.Pharm	
2.	K.ARUNKUMAR	561897202	1st B.Pharm	
3.	K.ARUNKUMAR	561897203	1st B.Pharm	
4.	V.CHANDURU	561897204	1st B.Pharm	
5.	L.DHINESHKUMAR	561897205	1st B.Pharm	
6.	S.GANESAN	561897206	1st B.Pharm	
7.	M.GNANAPRAKASH	561897207	1st B.Pharm	
8.	K.GOKULNATH	561897208	1st B.Pharm	
9.	S.GOKUL RAJ	561897209	1st B.Pharm	
10.	P.HARI VISHVA	561897210	1st B.Pharm	
11.	B.JEEVANANTH	561897211	1st B.Pharm	
12.	V.KALAIYARASAN	561897212	1st B.Pharm	
13.	K.KAYALVIZHI	561897213	1st B.Pharm	
14.	P.MANOBALA	561897214	1st B.Pharm	
15.	R.RAJESHKANNAN	561897215	1st B.Pharm	
16.	M.SAKTHIVEL	561897216	1st B.Pharm	
17.	G.SHAFFIULLAH	561897217	1st B.Pharm	
18.	S.SUBASH VARMA	561897218	1st B.Pharm	
19.	J.TAMIL SELVAN	561897219	1st B.Pharm	
20.	N.VASUVI	561897220	1st B.Pharm	
21.	V.VEDHACHALAM	561897221	1st B.Pharm	
22.	M.VIGNESH	561897222	1st B.Pharm	
23.	R.VIJAY	561897223	1st B.Pharm	

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ADD ON COURSE - ENROLLMENT LIST

NAME OF ADD ON COURSE: ROBOTICS & AUTOMATION IN

DRUG MANUFACTURING

COURSE INSTRUCTORS

: Dr .C.Jothimanivannan

YEAR OFFERED

: 2nd sem B.Pharm

COURSE DURATION

: 35 hrs

	NAME OF THE	REGISTER	ATTENDANCE					
S.NO	STUDENT	NO	3/6/19	4/6/19	5/6/19	6/6/19	7/6/19	10/7/19
1.	A.ABDUL AZIM	561897201	Adm	A.A	AA.	AA	AA	AA
2.	K.ARUNKUMAR	561897202	Atlum	Ashu	h Asim	Astur	Astun	Allu
3.	K.ARUNKUMAR	561897203	KArun	12 April	K.Anu	LL ASU	u LL ATU	KAY
4.	V.CHANDURU	561897204	chus	Chry	Chris	Chy	Parul	Cuch
5.	L.DHINESHKUMAR	561897205	Dinl	Peri	Durl	Durd	Diri	Din
6.	S.GANESAN	561897206	S. CVI	5.64	Sign	S. Con	8. Km	3.6
7.	-M.GNANAPRAKASH	561897207	(d. Dml	CI.P.	Cupy	Cr.PM	Col. Din	Carl
8.	K.GOKULNATH	561897208	Carl	Cris	and	Con!	Court	Cons
9.	S.GOKUL RAJ	561897209	CAR	CR	TAR'	THR	CHE	Tout
10.	P.HARI VISHVA	561897210	D.H.M	M.Harl	D.A.	Pilan	D. Huy	p. h
11.	B.JEEVANANTH	561897211	Total	"Last"	A.	- Lus	Huff	tur
12.	V.KALAIYARASAN	561897212	& Kali	vikala	· VISAL	Viker	Visali	dispo
13.	K.KAYALVIZHI	561897213	K. Kay	Kikay	1 K. Mays	K. Kay	K.Kay	Kittan
14.	P.MANOBALA	561897214	nump	U	Maril	Man	mul	Min
15.	R.RAJESHKANNAN	561897215	AB	AB	AB	AB	AB	Ad
16.	M.SAKTHIVEL	561897216	Cal	So	Ca	(20)	02	00
17.	G.SHAFFIULLAH	561897217	sali	Coli	1 Coli	Sali	301	Soli
18.	S.SUBASH VARMA	561897218	J. Varun	SNAM	Japan	Silam	J. you	S.Va
19.	J.TAMIL SELVAN	561897219	1. Jami	1				4
20.	N.VASUVI	561897220	rant	Vasor	Varel	Tend	variat	Vary
21.	V.VEDHACHALAM	561897221	rotentry	Nowy	~ Neth	weel	V. Nover	New
22.	M.VIGNESH	561897222	minut	men	month	M.W.	m.m	num
23.	R.VIJAY	561897223	R.W.	BRIN	PRANT.	ann	Raid	Ruel

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	NAME OF THE	REGISTER	ATTENDANCE					
S.NO	STUDENT	NO	11/6/19 12/6/19 13/6/19 14/6/19 17/6/19 18/7/19					
1.	A.ABDUL AZIM	561897201	1.					
2.	K.ARUNKUMAR	561897202	Agreer Agreer Agreer of new of new of new					
3.	K.ARUNKUMAR	561897203	Viter 10 for 10 for 10 for 10 for 10 for					
4.	V.CHANDURU	561897204	The August and and and and					
5.	L.DHINESHKUMAR	561897205	ON DA DA DA DA					
6.	S.GANESAN	561897206	Brund G. S. Great God A. 1					
7.	M.GNAŅAPRAKASH	561897207	Grand Gran Grand Grand Grand Grand Grand					
8.	K.GOKULNATH	561897208	Cooper Crust Grand Grand Brand Grand					
9.	S.GOKUL RAJ	561897209	Golf Could Broth Round Could					
10.	P.HARI VISHVA	561897210	John Tues out Job 1994 500e					
11.	B.JEEVANANTH	561897211	111111111111111111111111111111111111111					
12.	V.KALAIYARASAN	561897212	walny reas one was and one					
13.	K.KAYALVIZHI	561897213	Tought They four Rues Truy					
14.	P.MANOBALA	561897214	hand many beef die alleg inny					
15.	R.RAJESHKANNAN	561897215	A O O O O					
16.	M.SAKTHIVEL	561897216	Save S Cue Cere Jun Care					
17.	G.SHAFFIULLAH	561897217	100000000000000000000000000000000000000					
18.	S.SUBASH VARMA	561897218	Staff Shaff Shaff Shaff Shaff					
19.	J.TAMIL SELVAN	561897219	Times rate & Coll Coll Collet & Coll					
20.	N.VASUVI	561897220	parmi yaquil , see Varies 1) acores 1/acores					
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22.	M.VIGNESH	561897222	TIEN WIND TO WE THE					
23.	R.VIJAY	561897223	Riving Rivery Press Rivery Pross					

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ADD ON COURSE	ROBOTICS AND AUTOMATION IN DRUG MANUFATURING				
DEPARTMENT	PHARMACEUTICS				
ACADEMIC YEAR	2019-2020 03/06/2019 to18/06/2019				
DATE					
VENUE	SEMINAR HALL				
NAME: K. KAYAL VIZHI	COURSE: 11 - Som				

ANSWER ALL THE QUESTIONS:

MULTIPLE CHOICE QUESTIONS

1. What is the primary advantage of using robotics in drug manufacturing?

a) Reduced labor costs

b) Increased production speed

c) Enhanced precision and consistency

All of the above

2. Which type of robot is most commonly used in pharmaceutical manufacturing for tasks such as packaging and assembly?

Articulated robots

- b) Cartesian robots
- c) SCARA robots
- d) Collaborative robots

3. In which area of drug manufacturing is automation most likely to reduce human error?

a) Drug formulation

by Quality control

c) Packaging

d) Drug dispensing

4. What does a "collaborative robot" (cobot) in drug manufacturing typically do?

Works alongside humans to enhance productivity

b) Operates in a fully automated environment without human interaction

c) Specializes in handling hazardous materials

d) Is used only in the final stages of production

5. Which of the following is NOT a benefit of using automation in drug manufacturing?

a) Increased regulatory compliance

Higher operational costs

c) Improved product quality

d) Faster production times

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DATE:18/06/2019

MARKS:15

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- 6. How does automation impact the scalability of drug manufacturing?
 - a) Makes scaling up more difficult
 - MAllows for easy adjustment of production volumes
 - c) Has no impact on scalability
 - d) Reduces the need for skilled workers
 - 7. What is a common application of AI in automated drug manufacturing?
 - a) Managing supply chain logistics
 - b) Predicting drug efficacy in clinical trials
- Monitoring and controlling production processes
- d) Marketing pharmaceutical products
- 8. Which of the following technologies is essential for implementing automation in drug manufacturing?
 - a) Cloud computing
 - b) Internet of Things (IoT)
 - c) Blockchain
 - d) Virtual reality
 - 9. Why is traceability important in automated drug manufacturing?
 - a) To monitor employee performance
- b) To ensure each product can be traced back to its source
- c) To increase production speed
- d) To reduce manufacturing costs
- 10. What is the role of robotics in the packaging process of drug manufacturing?
 - a) Measuring and mixing ingredients
 - b) Sterilizing the final product
- () Filling, labeling, and sealing packages
- d) Designing drug formulations
- 11. Which process in drug manufacturing benefits most from automation to maintain a sterile environment?
 - a) Tablet pressing
 - b) Powder mixing
 - c) Aseptic filling
- d) Tablet coating
- 12. What is a major challenge when implementing automation in drug manufacturing?
- a) Maintaining flexibility in production lines
- b) Ensuring consistent product quality
- c) Reducing production speed
- d) Integrating legacy systems with new technology E O

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- 13. How can automation help in the regulatory compliance of drug manufacturing?
- a) By increasing human oversight
- b) By providing real-time data and documentation
 - c) By reducing production costs
- d) By simplifying supply chain management
- 14. What role does machine vision play in automated drug manufacturing?
- a) Supervising human workers
- b) Enhancing precision in quality inspections
- c) Reducing energy consumption
- d) Automating marketing strategies
- 15. Which aspect of drug manufacturing is least likely to be fully automated?
- a) Formulation development
- b) Packaging
- c) Quality assurance
- d) Inventory management

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DEPARTMENT	PHARMACEUTICS		
ACADEMIC YEAR	2019-2020		
DATE	03/06/2019 to18/06/2019		

ANSWER KEY:

DATE:18/06/2019

MULTIPLE CHOICE QUESTIONS

MARKS:15

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- d) Faster production times

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ADD ON COURSE - MARK LIST

NAME OF ADD ON COURSE: ROBOTICS & AUTOMATION IN

DRUG MANUFACTURING

COURSE INSTRUCTORS

: Dr .C.Jothimanivannan

YEAR OFFERED

· 2nd sem B.Pharm

COURSE DURATION

: 35 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%	
12.	V.KALAIYARASAN	561897212	13	86%	
13.	K.KAYALVIZHI	561897213	15	100%	
14.	P.MANOBALA	561897214	13	86%	
15.	R.RAJESHKANNAN	561897215	14	93%	
16.	M.SAKTHIVEL	561897216	14	93%	
17.	G.SHAFFIULLAH	561897217	15	100%	
18.	S.SUBASH VARMA	561897218	13	86%	
19.	J.TAMIL SELVAN	561897219	12	80%	
20.	N.VASUVI	561897220	15	100%	
21.	V.VEDHACHALAM	561897221	15	100%	
22.	M.VIGNESH	561897222	13	86%	
23.	R.VIJAY	561897223	13	86%	

TOTAL NUMBER OF STUDENT AFTERNOED: 23

TOTAL NUMBER OF PERCENT AGE: 89.

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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and The Directorate of Medical Education, Chennai.

ADD ON COURSE: SUMMARY REPORT

Course code and Name: 19RADM01/Robotics and Automation in Drug Manufacturing

Date Of Add On Programme: 03/06/2019 to 18/06/2019

Course Duration: 35 Hours

Year Offered: 2nd Sem B Pharm

Course Instructors: Dr.C.Jothimanivannan., M.Pharm, Ph.D.,

Professor & Principal, SSIP.

Course Outcomes:

 Robotics and automation in drug manufacturing boost efficiency and precision, leading to faster production and consistent quality.

 They reduce costs and improve safety by minimizing human error and handling hazardous materials.

Enhanced data analysis supports better decision-making and regulatory compliance.
 Overall, these technologies streamline operations and support innovation.

Course Type: Add on Course

Assessment Mode:

Total Duration: 35 Hours

Number of Participants: 23

Scheme of Exam: MCQ type, offline Mode

Date of Exam: 18/06/2019

Course Coordinator

Smoot

SANKAR *

PRINCIPAL.

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SALEM - 69790 SALEM - 637301.



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DEPARTMENT OF PHARMACEUTICS

Certificate of Participation

A. ABDUL AZIM

Has appreciated for his /her participation in VALUE ADDED COURSE On ROBOTICS AND AUTOMATION IN DRUG MANAFACTURING 03/06/2019 TO 18/06/2019

COORDINATOR



PRINCIPAL

SS INSTITUTE PO), SANKARI TE PRINCIPAL

KUPPANUR (PO), 637301



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COORDINATOR



PRINCIPAL.

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SSINSTITUTE OF PHARMACY.

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INSTITUTE

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SALEM 637301



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STUDENT FEEDBACK FORM

STUDENT NAME: G. SHAFFITULLAH

DATE: 18/06/2019

YEAR/COURSE: B. PHARM-IInd Sem.

NAME OF THE ADD ON COURSE: ROBOTICS & AUTOMATION IN DRUCT
MANUFATURINGS.

COURSE CODE: 19 RADMO1.

DURATION: 35 Wis.

EVALUATE HONESTLY:

Questions	Excellent	Good	Fair	Poor
How was the objectives of the training	V .			
How satisfied are you with our seminar		\checkmark		
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		V		
Usefulness of the information provided	V			- inves
Overall quality of session		2		

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and The Directorate of Medical Education, Chennai.

PHOTOGRAPH

DATE: 03/06/2019

ROBOTICS AND AUTOMATION IN DRUG MANUFACTURING

NAME OF ADD ON COURSE : ROBOTICS & AUTOMATION IN

DRUG MANUFACTURING

COURSE INSTRUCTORS

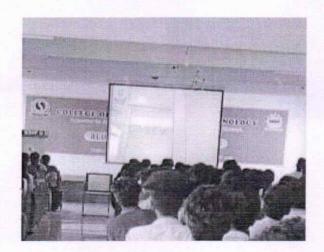
: DR.C.JOTHIMANIVANNAN

YEAR OFFERED

: 2nd SEM B.PHARM

COURSE DURATION

: 35 HRS



Add-on course regarding the Topic Application of Robotics and Automation in Drug Manufacturing conducted on 03/06/2019, the speech delivered By **Dr.C.Jothimanivannan.,M.Pharm,Ph.D. Professor & Principal**, SSIP which was an interactive session and students could able to understand the Application of Robotics and Automation in Drug Manufacturing in various areas in the fields of pharmaceutical sciences

SANKARI*

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