4

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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/2019/004   Date: 22/10/2019

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.
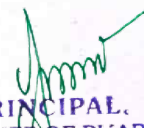
Respected sir,

    We are requesting you to grand permission to conduct add-on course in the seminar hall on **04/11/2019 to 28/11/2019.** We wish to conduct add on course on the title **"3D Printing In Pharmaceuticals".** This add-on course program would be a great opportunity for students to learn and that would help to shape the students.
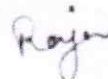
<div align="center">Thanking you,</div>

<div align="right">**Yours truly,**</div>

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

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

SS INSTITUTE OF PHARMACY

4

DATE: 22/10/2019

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.
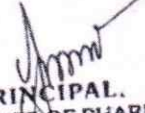
COURSE NAME	SCHEDULE	DURATION	VENUE	RESOURCE PERSON
3D PRINTING IN PHARMACEUTICALS	04/11/2019 to 28/11/2019	36 HOURS	SEMINAR HALL	G.RAJARAM

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.

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

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

COURSE TITLE

3D Printing in pharmaceuticals

RESOURCE PERSON

G.Rajaram M.Pharm
Asst. Professor
SS Institute of Pharmacy

Topics-

1. Design for 3D printed drug formulation

2. Application of 3D printing in drug delivery

3. Regulatory, quality control, and challenges in 3D printed pharmaceuticals.

Contact Us

🌐 Website
www.ssip.edu.in

✉ Email
ssip1718@gmail.com

📍 Address
SS Institute of Pharmacy,
Sankari ,Salem-637 301

SS INSTITUTE OF PHARMACY, SANKARI

SSIP

DEPARTMENT OF PHARMACEUTICS

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

VENUE : SSIP Seminar Hall
DATE : 01.07.2019-08.07.2019
TIME : 01:30pm-04:30pm

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

SYLLABUS

3D PRINTING IN PHARMACEUTICALS

Sl. No.	Topic	DATE

1	**Introduction and Overview of 3D Printing in Pharmaceuticals**
	- Introduction to 3D Printing in Pharmaceuticals
	  - Types of 3D Printing Technologies
	  - Overview of Drug Formulation and 3D Printing
		4/11/2019-7/11/2019

2	**Personalized Medicine and Drug Formulation** - Personalized Medicine and 3D Printing - Drug Formulation and 3D Printing - Regulatory Considerations for 3D Printed Pharmaceuticals	8/11/2019-12/11/2019
3	**3D Printing in Pharmaceutical Manufacturing** - 3D Printing in Pharmaceutical Manufacturing - 3D Printed Medical Devices and Implants	18/11/2019-20/11/2019
4	**Bioprinting and Tissue Engineering** - Bioprinting and Tissue Engineering - Applications in Regenerative Medicine	21/11/2019-23/11/2019
5	**Challenges, Limitations, and Future Directions** - Challenges and Limitations of 3D Printing in Pharmaceuticals - Future Directions and Opportunities in 3D Printing for Pharma	25/11/2019-28/11/2019

RESOURCE PERSON:G.Rajaram

TOTAL HOURS:36Hrs

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

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

ACADAMIC YEAR 2019-2020

S.NO	NAME OF ADD ON CERTIFICATES PROGRAMS	COURSE CODE	NO OF STUDENTS ENROLLED	TYPE OF ADD ON CERTIFICATE 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	19SMPI03	12	Self-framed course
4.	3D printing in Pharmaceutical	193DPP04	23	Self-framed course
5.	Pharmaceutical Project management	19PPM05	50	Self-framed course

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

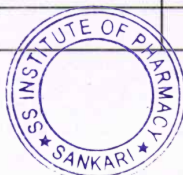## ADD ON COURSE – ENROLLMENT LIST

NAME OF ADD ON COURSE : 3D PRINTING IN PHARMACEUTICALS

COURSE INSTRUCTORS : G.RAJARAM

YEAR OFFERED : 3rd sem B.Pharm

COURSE DURATION : 36 hrs

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

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.
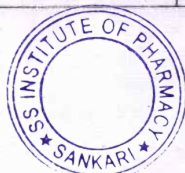
ADD ON COURSE –ATTENDANCE LIST

NAME OF ADD ON COURSE : 3D PRINTING IN PHARMACEUTICALS

COURSE INSTRUCTORS : G.RAJARAM

YEAR OFFERED : 3rd sem B.Pharm

COURSE DURATION : 36 hrs

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

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

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

S.NO	NAME OF THE STUDENT	REGISTER NO	ATTENDANCE								
			19/11/19	20/11/19	21/11/19	22/11/19	23/11/19	25/11/19	26/11/19	27/11/19	28/11/19
1.	A.ABDUL AZIM	561897201	AA		AA	AA	AA	AA	AA	AA	AA
2.	K.ARUNKUMAR	561897202	Arun	Arun	Arun	Arun	Arun	Arun	Arun	Arun	Arun
	K.ARUNKUMAR	561897203	K.Arun	K.Arun	K.Arun	K.Arun	K.Arun	K.Arun	K.Arun	K.Arun	K.Arun
4.	V.CHANDURU	561897204	Chand	Chand	Chand	Chand	Chand	Chand	Chand	Chand	Chand
5.	L.DHINESHKUMAR	561897205	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
6.	S.GANESAN	561897206	S.G	S.G	S.G	S.G	S.G	S.G	S.G	S.G	S.G
7.	M.GNANAPRAKASH	561897207	Gpra	Gpra	Gpra	Gpra	Gpra	Gpra	Gpra	Gpra
8.	K.GOKULNATH	561897208	Goku	Goku	Goku	Goku	Goku	Goku	Goku	Goku	Goku
9.	S.GOKUL RAJ	561897209	GR	GR	GR	GR	GR	GR	GR	GR	GR
10.	P.HARI VISHVA	561897210	PHari	PHari	PHari	PHari	PHari	PHari	PHari	PHari	PHari
11.	B.JEEVANANTH	561897211	Jee	Jee	Jee	Jee	Jee	Jee	Jee	Jee
12.	V.KALAIYARASAN	561897212	V.Kalai yara	V.Kalai yara	V.Kalai yara	V.Kalai yara	V.Kalai yara	V.Kalai yara	V.Kalai yara	V.Kalai yara	V.Kalai yara
13.	K.KAYALVIZHI	561897213	K.Kayal	K.Kayal	K.Kayal	K.Kayal	K.Kayal	K.Kayal	K.Kayal	K.Kayal	K.Kayal
14.	P.MANOBALA	561897214	Mano	Mano	Mano	Mano	Mano	Mano	Mano	Mano	Mano
15.	R.RAJESHKANNAN	561897215	A	A	A	A	A	A	A	A	A
16.	M.SAKTHIVEL	561897216	Sa	Sa	Sa	Sa	Sa	Sa	Sa	Sa	Sa
17.	G.SHAFFIULLAH	561897217	Safi	Safi		Safi	Safi	Safi	Safi	Safi	Safi
18.	S.SUBASH VARMA	561897218	Subash	Subash	Subash	Subash	Subash	Subash	Subash	Subash	Subash
19.	J.TAMIL SELVAN	561897219	JTamil	JTamil	JTamil	JTamil	JTamil	JTamil	JTamil	JTamil	JTamil
20.	N.VASUVI	561897220	vasuvi	vasuvi	vasuvi	vasuvi	vasuvi	vasuvi	vasuvi	vasuvi	vasuvi
21.	V.VEDHACHALAM	561897221	Vedhacha	Vedhacha	v.vedhach	vedhacha	v.vedha	vedhacha	vedhacha	vedhacha	v.vedhacha
22.	M.VIGNESH	561897222	M.vig	M.vig	M.vig	M.vig	M.vig	M.vig	M.vig	M.vig	
23.	R.VIJAY	561897223	R.Vijay	R.Vijay	R.Vijay	R.Vijay		R.Vijay	R.Vijay	R.Vijay	R.Vijay

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

④

ADD ON COURSE	3D PRINTING IN PHARMACEUTICALS
DEPARTMENT	PHARMACEUTICS
ACADEMIC YEAR	2019 -2020
DATE	04/11/2019 to 28/11/2019
VENUE	SEMINAR HALL
NAME: MANOBALA·P	COURSE: III SEM

ANSWER ALL THE QUESTIONS: DATE:28/11/2019

MULTIPLE CHOICE QUESTIONS   MARKS:15

1. What is the primary advantage of using 3D printing in pharmaceuticals?
   a) Increased speed
   b) Improved accuracy
   c) Enhanced customization
   d) Reduced cost

⑬

2. Which 3D printing technology is commonly used for pharmaceutical applications?
   a) Fused Deposition Modeling (FDM)
   b) Stereolithography (SLA)
   c) Selective Laser Sintering (SLS)
   d) All of the above

3. What is the main benefit of personalized medicine enabled by 3D printing?
   a) Improved efficacy
   b) Reduced side effects
   c) Increased patient compliance
   d) All of the above

4. What is the primary regulatory challenge associated with 3D printed pharmaceuticals?
   a) Ensuring quality control
   b) Meeting Good Manufacturing Practice (GMP) standards
   c) Addressing intellectual property concerns
   d) All of the above

5. How can 3D printing improve pharmaceutical manufacturing processes?
   a) By increasing automation
   b) By reducing material waste
   c) By enabling just-in-time production
   d) All of the above

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

6. What type of medical device can be created using 3D printing?
   a) Stents
   b) Surgical models
   c) Implants
   d) All of the above

7. What is bioprinting in the context of pharmaceuticals?
   a) Printing living tissues and organs
   b) Creating customized drug formulations
   c) Developing medical devices
   d) All of the above

8. What is the primary limitation of 3D printing in pharmaceuticals?
   a) Scalability
   b) Quality control
   c) Intellectual property concerns
   d) All of the above

9. How can 3D printing enable point-of-care manufacturing?
   a) By reducing production time
   b) By increasing production flexibility
   c) By enabling decentralized production
   d) All of the above

10. What is the potential benefit of using 3D printing for pharmaceutical research and development?
    a) Improved drug discovery
    b) Enhanced preclinical testing
    c) Increased clinical trial efficiency
    d) All of the above

11. How can 3D printing improve patient outcomes?
    a) By enabling personalized medicine
    b) By increasing treatment efficacy
    c) By reducing side effects
    d) All of the above

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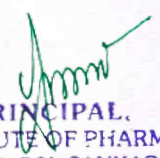KUPPANUR (PO), SANKARI (TK),
SALEM - 637301

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

12. What is the primary material used for 3D printing in pharmaceuticals?
    a) Metals
    b) Polymers
    c) Ceramics
    d) Biomaterials

13. How can 3D printing reduce pharmaceutical waste?
    a) By enabling just-in-time production
    b) By reducing material usage
    c) By creating customized dosages
    d) All of the above

14. What is the potential application of 3D printing in pharmaceutical packaging?
    a) Creating customized packaging
    b) Improving packaging safety
    c) Reducing packaging waste
    d) All of the above

15. How can 3D printing enable the creation of complex drug delivery systems?
    a) By enabling multi-material printing
    b) By creating customized geometries
    c) By improving drug release profiles
    d) All of the above

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

ADD ON COURSE	3D PRINTING IN PHARMACEUTICALS
DEPARTMENT	PHARMACEUTICS
ACADEMIC YEAR	2019 -2020
DATE	04/11/2019 to 28/11/2019

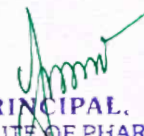**ANSWER KEY:**   **DATE:28/11/2019**

MULTIPLE CHOICE QUESTIONS   **MARKS:15**

1. What is the primary advantage of using 3D printing in pharmaceuticals?
   a) Increased speed
   b) Improved accuracy
   c) Enhanced customization
   d) Reduced cost

2. Which 3D printing technology is commonly used for pharmaceutical applications?
   a) Fused Deposition Modeling (FDM)
   b) Stereolithography (SLA)
   c) Selective Laser Sintering (SLS)
   d) All of the above

3. What is the main benefit of personalized medicine enabled by 3D printing?
   a) Improved efficacy
   b) Reduced side effects
   c) Increased patient compliance
   d) All of the above

4. What is the primary regulatory challenge associated with 3D printed pharmaceuticals?
   a) Ensuring quality control
   b) Meeting Good Manufacturing Practice (GMP) standards
   c) Addressing intellectual property concerns
   d) All of the above

5. How can 3D printing improve pharmaceutical manufacturing processes?
   a) By increasing automation
   b) By reducing material waste
   c) By enabling just-in-time production
   d) All of the above

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

6. What type of medical device can be created using 3D printing?
   a) Stents
   b) Surgical models
   c) Implants
   d) All of the above

7. What is bioprinting in the context of pharmaceuticals?
   a) Printing living tissues and organs
   b) Creating customized drug formulations
   c) Developing medical devices
   d) All of the above

8. What is the primary limitation of 3D printing in pharmaceuticals?
   a) Scalability
   b) Quality control
   c) Intellectual property concerns
   d) All of the above

9. How can 3D printing enable point-of-care manufacturing?
   a) By reducing production time
   b) By increasing production flexibility
   c) By enabling decentralized production
   d) All of the above

10. What is the potential benefit of using 3D printing for pharmaceutical research and development?
    a) Improved drug discovery
    b) Enhanced preclinical testing
    c) Increased clinical trial efficiency
    d) All of the above

11. How can 3D printing improve patient outcomes?
    a) By enabling personalized medicine
    b) By increasing treatment efficacy
    c) By reducing side effects
    d) All of the above

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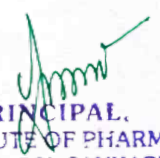SALEM - 637301

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

12. What is the primary material used for 3D printing in pharmaceuticals?
    a) Metals
    b) Polymers
    c) Ceramics
    d) Biomaterials

13. How can 3D printing reduce pharmaceutical waste?
    a) By enabling just-in-time production
    b) By reducing material usage
    c) By creating customized dosages
    d) All of the above

14. What is the potential application of 3D printing in pharmaceutical packaging?
    a) Creating customized packaging
    b) Improving packaging safety
    c) Reducing packaging waste
    d) All of the above

15. How can 3D printing enable the creation of complex drug delivery systems?
    a) By enabling multi-material printing
    b) By creating customized geometries
    c) By improving drug release profiles
    d) All of the above

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

ADD ON COURSE – MARK LIST

NAME OF ADD ON COURSE : **3D PRINTING IN PHARMACEUTICALS**

COURSE INSTRUCTORS : **G.RAJARAM**

YEAR OFFERED : **3rd 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	12	80%
5.	L.DHINESHKUMAR	561897205	13	86%
6.	S.GANESAN	561897206	14	93%
7.	M.GNANAPRAKASH	561897207	13	86%
8.	K.GOKULNATH	561897208	12	80%
9.	S.GOKUL RAJ	561897209	12	80%
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	A	A
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 :22

TOTAL NUMBER OF PERCENTAGE :94%

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

PRINCIPAL.
SS INSTITUTE OF PHARMACY.
KUPPANUR (PO), SANKARI (TK).

NH-544, Kuppanur (Po), Sankari (Tk), Salem(Dt) – 637301,Tamilnadu, India
Phone : 04283 241080 | E-mail : ssip1718@gmail.com | Website : www.ssip.edu.in

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

ADD ON COURSE : SUMMARY REPORT

Course code and Name : 193DPP04/ 3D Printing In Pharmaceuticals

Date Of Add On Programme : 04/11/2019 to 28/11/2019

Course Duration : 36 Hours

Year Offered : 3rd Sem B.Pharm

Course Instructors : G.Rajaram.,M.Pharm.

Course Outcomes :

> **Technology Understanding:** Gain a comprehensive understanding of 3D printing technologies and their applications in pharmaceutical manufacturing.
> **Design and Development:** Learn to design and develop custom drug delivery systems and medical devices using 3D printing techniques.
> **Regulatory Considerations:** Understand regulatory challenges and guidelines related to 3D-printed pharmaceutical products.

Course Type : Add on Course

Assessment Mode:

Total Duration : 36 Hours

Number of Participants : 23

Scheme of Exam : MCQ type, offline Mode

Date of Exam : 28/11/2019

Course Coordinator

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

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

SS INSTITUTE OF PHARMACY

CERTIFICATE OF PARTICIPATION

ONE DAY WORKSHOP

Organized by

Department of

PHARMACACEUTIS

K. ARUNKUMAR

HAS APPRICATED FOR HIS / HER PARTICIPATION

IN ONE DAY SEMINAR ON

3D PRINTING IN PHARMACEUTICALS

04/11/2019 TO 28/11/2019

COORDINATOR

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

PRINCIPAL

SS INSTITUTE OF PHARMACY

CERTIFICATE OF PARTICIPATION

ONE DAY WORKSHOP

Organized by

Department of

PHARMACACEUTIS

N. VASAYI

HAS APPRICATED FOR HIS / HER PARTICIPATION

IN ONE DAY SEMINAR ON

3D PRINTING IN PHARMACEUTICALS

04/11/2019 TO 28/11/2019

COORDINATOR

PRINCIPAL

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

SS INSTITUTE OF PHARMACY * SANKARI *

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)
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.

STUDENT FEEDBACK FORM

STUDENT NAME: Ganesan·S·   DATE: 26·11·2019

YEAR/COURSE: B·pharm —III rd sem.

NAME OF THE ADD ON COURSE: 3D Printing in pharmaceuticals

COURSE CODE: 193DPPO4   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	✓			

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

SIGNATURE

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

SS INSTITUTE OF PHARMACY

(A unit of VS Educational & Charitable Trust)

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.

PHOTOGRAPH   **DATE : 06/11/2019**

3D PRINTING IN PHARMACEUTICALS

NAME OF ADD ON COURSE	:	3D PRINTING IN PHARMACEUTICALS
COURSE INSTRUCTORS	:	G.RAJARAM
YEAR OFFERED	:	3rd SEM B.PHARM
COURSE DURATION	:	36 HRS
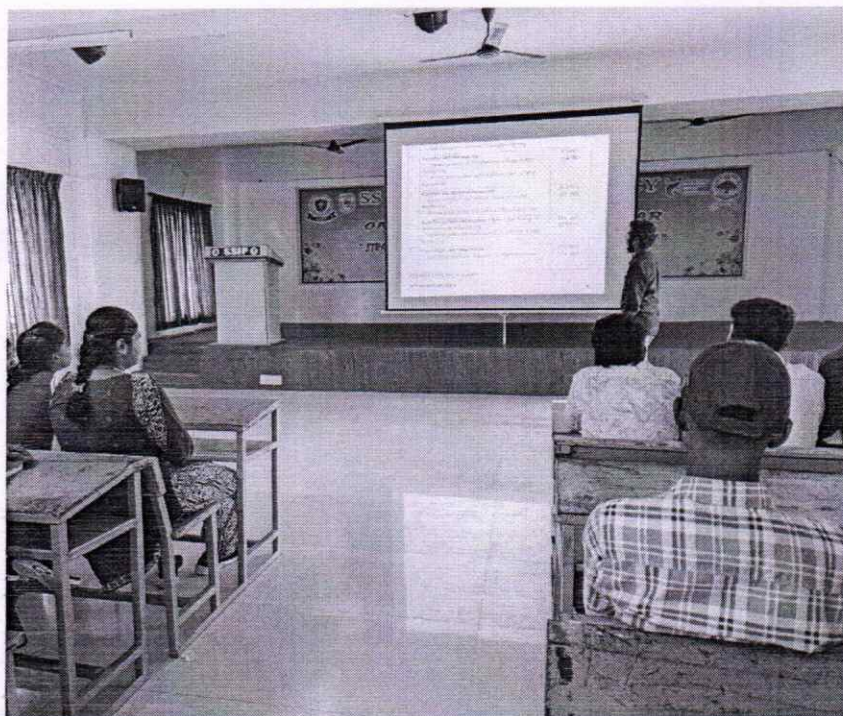
Add-on course regarding the Topic Application of 3D Printing In Pharmaceuticals conducted on 06/11/2019 the speech delivered By **G.Rajaram.,M.Pharm**, SSIP which was an interactive session and students could able to understand the Application of 3D Printing In Pharmaceuticals in the fields of pharmaceutical sciences

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