



RAAK

COLLEGE OF ENGINEERING AND TECHNOLOGY

[Approved by AICTE, New Delhi & Affiliated to Pondicherry University]

02/08/2020

From

Mrs.L.Rogini Devi
Assistant Professor /S&H
RAAK College of Engineering and Technology
Puducherry -110

To

The Principal
RAAK College of Engineering and Technology
Puducherry -110

Respected Sir,

Sub: Requisition for Approval to Conduct Skill Development program / Value added Course on
"20SH01 - Laser Physics" -reg.

This is to bring to your kind notice that the Skill Development Team is planning to conduct a Program on
"20SH01- Laser Physics" for all the first Year Department of Science & Humanities.
students from 09-08-2020 to 14-08-2020.

The main focus of this program is to provide a better exposure to our students on the Laser Physics
for practical applications.

The syllabus and course plan structured are not listed in the Pondicherry University Curriculum. and
the same have been verified and approved by the Principal/HoD/Professors and Skill development team:.

Hence, I kindly request you to approve event planned. The details and the necessary proofs are
attached with this letter.

Thanking you,

Yours faithfully

L. Rogini Devi
Mrs.L.Rogini Devi

AP/S&H



[Signature]
DR. S. SEENUVARAN, M.A., M.E., Ph.D.
PRINCIPAL
RAAK College of Engineering & Technology
No.1, Muthupillai Palayam Road,
Sulthanpet Post,
Puducherry - 605 110



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RAAKCET/PRINCIPAL/CIR/AUG2020

03/08/2020

CIRCULAR

This is to inform that the Skill Development Team is planning to conduct a value added course on “20SH01- Laser Physics” for all the first year department of science & humanities students from 09-08-2020 to 14-08-2020. Students are asked to utilize this opportunity and improve their skills.

PRINCIPAL

Circulation to:

1. All Students
2. All Faculty & Staff Members
3. All HoDs

Copy to:

1. All HoDs
2. Office



Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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DEPARTMENT OF SCIENCE AND HUMANITIES PRESENTS

VALUE ADDED COURSE ON LASER PHYSICS (ONLINE MODE)

2020-2021

DATE: 09/08/2020 to 13/08/2020

VENUE: RAAK CET

TIME: 09 am to 04 pm

Resource Person:

Dr. Victor Antony
Assistant Professor,
Krishnaswamy College of Engg & Tech.

For Registration Contact:

Ms. L. Roginidevi, AP/ S & H,
9003837028.

HOD

Mr. P. Radja Sacravarthi

PRINCIPAL

Dr. S. Seenuvasamurthi

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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WWW.raakengg.com



raakengg@mail.com



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Value Added Courses

2020-2021

Department of Science & Humanities.

20SH01- Laser Physics

Syllabus

Duration: 36 hours

Course Objective:

- To understand the fundamental concepts of Laser principles.
- To provide the knowledge of Laser beam properties and methods of Laser pulse generation
- To provide knowledge of various Laser spectroscopic techniques
- To introduce some advanced Laser spectroscopic technique.

Course Outcomes:

- Explain the operational principles and construction of lasers
- Describe optical components that can be used to tailor the properties of the laser
- Distinguish between the different optical cavities.
- Describe the conditions of producing a laser beam.

Module 1: Introduction to Laser

(9 Hours)

Summary of black body radiation- quantum theory of evaluation of the transition rates- stimulated and spontaneous emission

Module 2: Solid State Lasers

(9 Hours)

Ruby & Nd: YAG lasers. He-Ne laser, Dye laser, semiconductor diode laser.

Module 3: Gas Lasers

(9 Hours)

Molecular gas lasers- CO₂ laser & N₂ lasers.

Module 4: Population Inversion

(9 Hours)

Einstein's A & B coefficient- relation between them- condition for light amplification- Population inversion- Pumping methods and schemes.

Module 5: Laser- Applications

(9 Hours)

Lasers in mechanical industry, Electronics industry, nuclear energy, medicine, Defense, communication- measurement of distance and velocity.

L. Resecond.
Course Designed by



Dr. S. Seenuvasamurthi
Approved by

Dr. S. Seenuvasamurthi
Principal

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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CO - ATTAINMENT MAPPING

Sl. No	Register Number	Student Name	CO1	CO2	CO3	CO4
1.	20TD0902	ARAVIND. V	✓	✓	✓	✓
2.	20TD0903	ASRAF ALI. A	✓	✓	✓	✓
3.	20TD0904	BHARATHI. S	✓	✓	✓	✓
4.	20TD0905	BHUVANESWARAN. U	✓	✓	✓	✓
5.	20TD0906	DINESH KUMAR. T	✓	✓	✓	✓
6.	20TD0907	FAHMETHA. J	✓	✓	✓	✓
7.	20TD0908	FROSE. S	✓	✓	✓	✓
8.	20TD0909	GNANAMOORTHY. E	✓	✓	✓	✓
9.	20TD0910	HEMALAKSHMI. J	✓	✓	✓	✓
10.	20TD0911	JASMEEN.O	✓	✓	✓	✓
11.	20TD0912	JAYASUDHA. S	✓	✓	✓	✓
12.	20TD0913	KARTHIKA. K	✓	✓	✓	✓
13.	20TD0914	KAVIARASAN. S	✓	✓	✓	✓
14.	20TD0915	KAVIYA. K	✓	✓	✓	✓
15.	20TD0916	MALAVIKA. K	✓	✓	✓	✓
16.	20TD0917	MARIMUTHU. N	✓	✓	✓	✓
17.	20TD0918	MERVIN IMMANUVEL. S	✓	✓	✓	✓

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18.	20TD0919	NATRAJAN. R	✓	✓	✓	✓
19.	20TD0920	PARKAVI. S	✓	✓	✓	✓
20.	20TD0922	RANJITH. A	✓	✓	✓	✓
21.	20TD0923	SATCHIDHANANDHAM. A	✓	✓	✓	✓
22.	20TD0924	SNEGA. G	✓	✓	✓	✓
23.	20TD0925	VIJAYA LAKSHMI. L	✓	✓	✓	✓
24.	20TD0926	VISHNU PRIYA. V	✓	✓	✓	✓
25.	20TD0927	YASMIN. A	✓	✓	✓	✓
26.	20TC0501	AKASH M	✓	✓	✓	✓
27.	20TC0502	AKASH M	✓	✓	✓	✓
28.	20TC0503	ANKANI LEELA SAI VARMA	✓	✓	✓	✓
29.	20TC0505	BALAJI S	✓	✓	✓	✓
30.	20TC0506	BHARATHI K	✓	✓	✓	✓
31.	20TC0507	FARIDH KHAN J	✓	✓	✓	✓
32.	20TC0508	PRAVIN R	✓	✓	✓	✓
33.	20TC0509	PURUSHOTHAMAN D	✓	✓	✓	✓
34.	20TC0510	RAJESWARI R	✓	✓	✓	✓
35.	20TC0512	SATHEESH KUMAR A	✓	✓	✓	✓
36.	20TC0513	SHARMILA S	✓	✓	✓	✓

Dr. S. SEENUYASHMURTHI, M.E., Ph.D.

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37.	20TC0514	SRI HARI B	✓	✓	✓	✓
38.	20TC0515	SWATHI S	✓	✓	✓	✓
39.	20TC0516	THAYUMANAVAR S	✓	✓	✓	✓
40.	20TE0251	ARUN.S	✓	✓	✓	✓
41.	20TE0252	KANMANI.K	✓	✓	✓	✓
42.	20TE0253	NALLARASAN.E	✓	✓	✓	✓
43.	20TE0254	PRITHEESH KUMAR.R	✓	✓	✓	✓
44.	20TE0255	VENKATESAN.S	✓	✓	✓	✓




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Value Added Courses

2020-2021

Department of Science & Humanities.

20SH01- Laser Physics

COURSE PLAN

S.no	Date	Hours	Time	Topic	Faculty details
DAY -1					
1	09.08.20	1,2	9AM -11AM	Summary of black body radiation	Dr.V.Kalaiselvi & Dr.A.Victor Antony
2		3,4	11.15AM – 1.15 PM	quantum theory of evaluation of the transition rates	Dr.V.Kalaiselvi
3		5,6	2 PM -4PM	stimulated and spontaneous emission	Dr.A.Victor Antony
DAY 2					
4	10.08.20	7,8	9AM -11AM	Ruby & Nd: YAG lasers	Dr.V.Kalaiselvi
5		9,10,	11.15AM – 1.15 PM	He-Ne laser, Dye laser	Dr.A.Victor Antony
6		11,12	2 PM -4PM	semiconductor diode laser.	Dr.V.Kalaiselvi
DAY -3					
7	11.08.20	13,14	9AM -11AM	Molecular gas lasers	Dr.V.Kalaiselvi
8		15,16	11.15AM – 1.15 PM	CO2 laser,	
9		17,18	2 PM -4PM	N2 lasers..	Dr.V.Kalaiselvi
DAY -4					
10	12.08.20	19,20	9AM -11AM	Einstein's A & B coefficient- relation between them	Dr.A.Victor Antony
11		21,22	11.15AM – 1.15 PM	condition for light amplification	Dr.V.Kalaiselvi
12		23,24	2 PM -4PM	Population inversion- Pumping methods and schemes.	Dr.A.Victor Antony
DAY -5					
13	13.08.20	25,26	9AM -11AM	Lasers in mechanical industry, Electronics industry,	Dr.V.Kalaiselvi
14		27,28	11.15AM – 1.15 PM	, nuclear energy, medicine, Defense.	Dr.A.Victor Antony



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				communication	
15		29,30	2 PM -4PM	measurement of distance and velocity.	Dr.V.Kalaiselvi
ASSESSMENT EXAM WILL BE CONDUCTED AFTER ONE WEEK OF COURSE COMPLETION *					

BREAK TIME: 11.00 TO 11.15 AM

LUNCH BREAK: 1.15 PM TO 2.00 PM

L. Rogini Devi
COURSE DESIGNED BY
MRS.L.ROGINI DEVI

Dr. Radha Kataly
APPROVED BY
SKILL DEVELOPMENT TEAM

Dr. S. Seenuvasamurthi
PRINCIPAL
Dr.S.SEENUVASAMURTHI



Dr. S. Seenuvasamurthi
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Value Added Courses

2020-2021

Department of Science & Humanities.

EVENT REPORT

Name of the Course: 20SH01- Laser Physics(Online Mode)

Name of the Instructors: Dr.V.Kalaiselvi &Dr.A.Victor Antony

Year/ Branch: I/ S&H

Duration of Course: 36 Hours (09-08-2020 to 13-08-2020)

Assessment Date: 20.08.2020

Post Event Summary:

The course was inaugurated on 09-08-2020 at 9.30 A.M. by our respectable principal and sessions were continued as per the schedule. Students were enriched their knowledge by attending the course. Finally, the course concluded by vote of thanks.

On 20.08.2020 assessment was conducted and feedbacks were collected from all the participants.

CO - Attainment:

CO1: Explain the operational principles and construction of lasers

CO2: Describe optical components that can be used to tailor the properties of the laser

CO3: Distinguish between the different optical cavities.

CO4: Describe the conditions of producing a laser beam.




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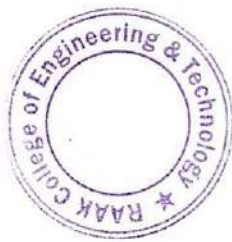
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Value Added Course on Laser Physics 2020-21

About this call	
People	Info
Harshath .R	
Hemalakshmi Hemala...	
Jaffer Set	
Jas Jasmeen	
Jayasudha	
Jesintha Mary IT	
Jothi Jothi	
kalai jai	
Kalimuthu Sathish	
kani mozhi	
Kannadasan K	
Karthik	
Karthik Selvam	
Kavi Arasan	

Semi conductor diode laser on 10.08.20




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From

Mrs.L.Rogini Devi
Assistant Professor /S&H
RAAK College of Engineering and Technology
Puducherry -110

To

The Principal
RAAK College of Engineering and Technology
Puducherry -110

Respected Sir,

Sub: Requisition for Approval to Conduct Skill Development program / Value added Course on
"20SH02- Cosmetics Chemistry" - reg.

This is to bring to your kind notice that the Skill Development Team is planning to conduct a Program on "20SH02- Cosmetics Chemistry" for all the first Year Department of Science & Humanities. Students from 09-08-2020 to 13-08-2020.

The main focus of this program is to provide a better exposure to our students on the Teaching of English Language and Literature for practical applications.

The syllabus and course plan structured are not listed in the Pondicherry University Curriculum. and the same have been verified and approved by the Principal/HoD/Professors and Skill development team.

Hence, I kindly request you to approve event planned. The details and the necessary proofs are attached with this letter.


Thanking you,

Yours Faithfully,


Mrs.L.Rogini Devi

AP/S&H




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RAAKCET/PRINCIPAL/CIR/AUG2020

03/08/2020

CIRCULAR

This is to inform that the Skill Development Team is planning to conduct a value added course on "20SH02- Cosmetics Chemistry" for all the First Year Department of Science & Humanities. Students from 09-08-2020 to 13-08-2020. Students are asked to utilize this opportunity and improve their skills.

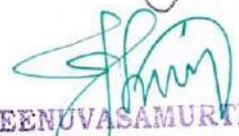

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DEPARTMENT OF SCIENCE AND HUMANITIES PRESENTS

VALUE ADDED COURSE ON COSMETICS CHEMISTRY (ONLINE MODE)

2020-2021

DATE: 09/08/2020 to 13/08/2020

VENUE: RAAKCET

TIME: 09 am to 04 pm

Resource Person:

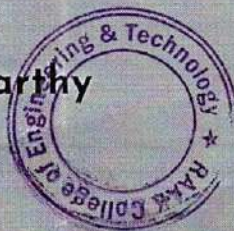
Dr. S. Devasenan
Assistant Professor,
Mailam Engineering college.

For Registration Contact:

Mr. S. Ramachandran , AP/ S & H,
9790171467.

HOD

Mr. P. Radja Sacravartan



PRINCIPAL

Dr. S. Seenuvasamurthi

Dr. S. SEENUVASAMURTHI, M.E., Ph.C.
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VALUE ADDED COURSES

2020-2021

Department of Science & Humanities.

20SH02- Cosmetics Chemistry

Duration: 36 hours

Course Objective:

1. This course is designed to provide foundation knowledge of cosmetic principles to address the needs of cosmetic industry.
2. Provide practical skills in the area of biology, formulation science, cosmeceuticals (cosmetics with-, skin, hair and oral care benefits) and personal care and hygiene products.
3. Provide knowledge on cosmetics, and related sciences,
4. Provide with knowledge on marketing approaches on studying consumer need, need gaps,-, managing competition and global markets

Course Outcomes:

CO1: Formulate and evaluate various cosmeceutical products.

CO2: Know the key components used in different cosmeceutical products

CO3: Recognize the role of ingredients and herbs used in cosmeceutical products

CO4: Employable skills and high technical competence for Pharmaceutical Industry

Module 1: Cosmetics

(9 Hours)

Cosmetics- Classification, significance, quality control and its importance, stability of product forms and its significance. Physical and chemical properties of agents and designing of different product forms. Review of current product forms in market.

Module 2: Basic raw materials

(9 Hours)

Basic raw materials, preparation and uses of Hair dye, Shampoo, Lipsticks, Handmade herbal Soap, Herbal tooth powder, Phenyl making, liquid soap and detergents.

Module 3: Essential oils

(9 Hours)

Essential oils and their importance in cosmetic industries with reference to Eugenol, Geraniol, sandalwood oil, eucalyptus, rose oil, Civetone and Muscone. Surfactants- Introduction, physical and chemical properties, its types, HLB scale and its application in cosmetics. Review of commercialized surfactants.

Module 4: Evaluation of Drugs

(9 Hours)

Evaluation of Drugs, patenting and regulatory requirement of natural products, Regulatory issuance




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Module 5: herbal industry

(9 Hours)

General introduction of herbal industry, schedule T- Good manufacturing practice of indian system of medicine, components of GMP (SCHEDULE-T)

L. Ranganathan
Course Designed by

D. Radha Sankar
Approved by

S. Seenuvasamurthi
Principal



S. Seenuvasamurthi
Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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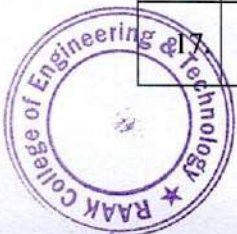
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CO - ATTAINMENT MAPPING

Sl. No	Register Number	Student Name	CO1	CO2	CO3	CO4
1.	20TH0251	ARUNADEVI K	✓	✓	✓	✓
2.	20TH0252	ASHOKKUMAR R	✓	✓	✓	✓
3.	20TH0253	DHARANIRASAN R	✓	✓	✓	✓
4.	20TH0254	JESINTHA MARY D	✓	✓	✓	✓
5.	20TH0255	LOGESH M	✓	✓	✓	✓
6.	20TH0256	MOHAMED DHOWFIQ A	✓	✓	✓	✓
7.	20TH0257	MOHANDASS T	✓	✓	✓	✓
8.	20TH0258	MONIKA M	✓	✓	✓	✓
9.	20TH0259	MUTHAZHAGAN S	✓	✓	✓	✓
10.	20TH0260	PRETHESHWARAN S	✓	✓	✓	✓
11.	20TH0261	PRIYANKA M	✓	✓	✓	✓
12.	20TH0262	SAKTHI YUVARAJ V	✓	✓	✓	✓
13.	20TH0263	SOWMIYA KK	✓	✓	✓	✓
14.	20TH0266	YAZHINI K	✓	✓	✓	✓
15.	20TB0301	ABINESH.A	✓	✓	✓	✓
16.	20TB0302	AMARESH.V	✓	✓	✓	✓
17.	20TB0303	HARISUDHAN.D	✓	✓	✓	✓



Dr. S. SEENUYASAMURTHI, M.E., Ph.D.

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18.	20TB0304	KAPILDEV.S	✓	✓	✓	✓
19.	20TB0305	RAJENDIRAN.P	✓	✓	✓	✓
20.	20TB0306	SURESH KUMAR.R	✓	✓	✓	✓




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Value Added Courses

2020-2021

Department of Science & Humanities.

20SH02- Cosmetics Chemistry

COURSE PLAN

S.no	Date	Hours	Time	Topic	Resource Person
DAY-1					
1	09.08.20	1,2	9AM -11AM	Cosmetics- Classification, significance, quality control and its importance, stability of product forms	Mr.Raguraman & Dr.S.Devasenar
2		3,4	11.15AM – 1.15 PM	its significance. Physical and chemical properties of agents	Mr.Raguraman
3		5,6	2 PM -4PM	designing of different product forms. Review of current product forms in market.	Dr.S.Devasenar
DAY 2					
4	10.08.20	7,8	9AM -11AM	Basic raw materials, preparation and uses of Hair dye	Mr.Raguraman
5		9,10,	11.15AM – 1.15 PM	Shampoo, Lipsticks, Handmade herbal Soap,	Dr.S.Devasenar
6		11,12	2 PM -4PM	Herbal tooth powder, Phenyl making, liquid soap and detergents.	Mr.Raguraman
DAY-3					
7	11.08.20	13,14	9AM -11AM	Essential oils and their importance in cosmetic industries with reference to Eugenol, Geraniol, sandalwood oil	Dr.S.Devasenar
8		15,16	11.15AM – 1.15 PM	eucalyptus, rose oil, Civetone and Muscone. Surfactants- Introduction, physical and chemical properties, Its types	Mr.Raguraman



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9		17,18	2 PM -4PM	HLB scale and its application in cosmetics. Review of commercialized surfactants..	Dr.S.Devasenana
DAY -4					
10	12.08.20	19,20	9AM -11AM	Evaluation of Drugs	
11		21,22	11.15AM – 1.15 PM	, patenting and regulatory requirement of natural products	Mr.Raguraman
12		23,24	2 PM -4PM	Regulatory issue	Dr.S.Devasenana
DAY -5					
13	13.08.20	25,26	9AM -11AM	General introduction of herbal industry,	Mr.Raguraman
14		27,28	11.15AM – 1.15 PM	schedule T- Good manufacturing practice of indian system of medicine	Dr.S.Devasenana
15		29,30	2 PM -4PM	components of GMP (SCHEDULE-T)	Mr.Raguraman
ASSESSMENT EXAM WILL BE CONDUCTED AFTER ONE WEEK OF COURSE COMPLETION *					

BREAK TIME: 11.00 TO 11.15 AM

LUNCH BREAK: 1.15 PM TO 2.00 PM

L. Rogini Devi
COURSE DESIGNED BY
Mrs.L.ROGINI DEVI

P. Radha Ganithy
APPROVED BY
SKILL DEVELOPMENT TEAM

[Signature]
PRINCIPAL
Dr.S.SEENUVASAMURTHI



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**Value Added Courses
2020-2021
Department of Science & Humanities
EVENT REPORT**

Name of the Course: 20SH02- Cosmetics Chemistry(Online Mode)

Name of the Instructors: Mr.Raguraman & Dr.S.Devasenan

Year/ Branch: I/ S&H

Duration of Course: 36 Hours (09-08-2020 to 13-08-2020)

Assessment Date: 20.08.2020

Post Event Summary:

The course was inaugurated on 09-08-2020 at 9.30 A.M. by our respectable principal and sessions were continued as per the schedule. Students were enriched their knowledge by attending the course. Finally, the course concluded by vote of thanks.

On 20.08.2020 assessment was conducted and feedbacks were collected from all the participants.

CO - Attainment:

CO1: Formulate and evaluate various cosmeceutical products.

CO2: Know the key components used in different cosmeceutical products.

CO3: Recognize the role of ingredients and herbs used in cosmeceutical products.

CO4: Employable skills and high technical competence for Pharmaceutical Industry.




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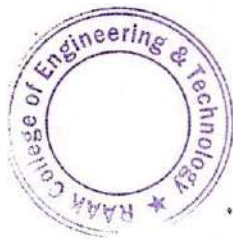
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Value Added Course on Cosmetics Chemistry 2020-21

← About this call		Info
People		
	Parkavi CSE	✂ ✂ ✂
	Pavi Puni	✂ ✂ ✂
	Pavithra A M	✂ ✂ ✂
	Poonkavithai Kalame...	✂ ✂ ✂
	Poonkavithai Kalame...	✂ ✂ ✂
	Praveen Kumar	✂ ✂ ✂
	Preetha Preetha	✂ ✂ ✂
	preetha ravi	✂ ✂ ✂
	Priyadarshani Prakas...	✂ ✂ ✂
	Priyanka mohan	✂ ✂ ✂
	R Pushpa	✂ ✂ ✂
	Radhakrishnan Para...	✂ ✂ ✂
	Ramya A	✂ ✂ ✂
	Richard Antony C	✂ ✂ ✂

schedule T- Good manufacturing practice of indian system of medicine on 13.08.20




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