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REF.NO:SSIP/ REQ/2022/001

Date: 01/06/2022

#### 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 06/06/2022 to 21/06/2022. We wish to conduct add on course on the title "Advanced Thermodynamics And Combustion". 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,

KUPPANUR (PO), SANKARI (TK). SALEM -637301

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:** 01/06/2022

#### **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
ADVANCED THERMODYNAMICS AND COMBUSTION	06/06/2022 to 21/06/2022	36 HOURS	SEMINAR HALL	DR.G.SEKAR
	. *	et.		

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

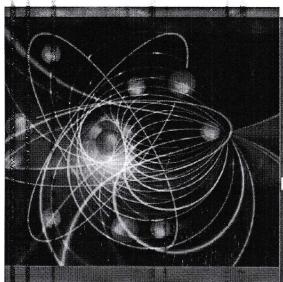
Note: Certificates will be issued for the eligible students after completion of the course and examination.

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

SALEM - 637301

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### **COURSE TITLE**

### **RESOURCE PERSON**

Dr.G.Sekar M.Pharm,Ph.D professor, HOD SS Institute of Pharmacy.

PHONE: 9443026056

E-MAIL: SSIP1718@GMAIL.COM

WEBSITE: WWW.SSIP.EDU.IN

### ADDRESS

SS INSTITUTE OF PHARMACY, SANKARI, SALEM-637 301

### **TOPICS-**

1. Advanced Equations of State

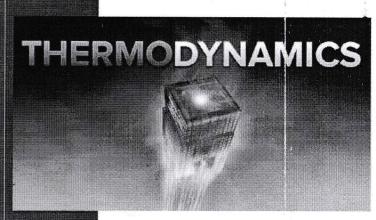
2. Chemical Reaction **Thermodynamics** 

3. Combustion Kinetics

4. Combustion in Engines



# SS INSTITUTE OF PHARMACY, SANKARI



**DEPARTMENT OF PHARMACÉUTICS** 

06/06/2022-21/06/2022



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# SYLLABUS ADVANCED THERMODYNAMICS AND COMBUSTION

SI.		
No.	Topic	DATE
1	Fundamentals of Thermodynamics	6/6/2022-
	- Laws of Thermodynamics	7/6/2022
	- Thermodynamic Properties of Pure Substances	
	- Chemical Thermodynamics	
2	Introduction to Combustion	8/6/2022-
	- Combustion Fundamentals	10/6/2022
	- Kinetics of Combustion	
	- Combustion of Hydrocarbon Fuels	1.
3	Flame Dynamics and Combustion in Engines	13/6/2022-
	- Flame Dynamics and Stability	15/6/2022
	- Combustion in Internal Combustion Engines and Gas	
	Turbines	-
4	<b>Environmental Impact and Pollution Control</b>	16/6/2022-
	- Pollutants Formation in Combustion	17/6/2022
	- Emission Control Strategies	
5	Advanced and Sustainable Combustion Technologies	18/6/2022-
	- Advanced Combustion Technologies	21/6/2022
r sa estente	- Alternative Fuels and Sustainable Combustion Practices	. , .

**RESOURCE PERSON:Dr.G.Sekar** 

**TOTAL HOURS:36Hrs** 

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

SALEM - 637301

TX). PRINCIPAL.
SS INSTITUTE OF PHARMACY
RUPPANUR (PO). SANKARI (TIQ.
SALEM 637301

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

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ADD ON / CERTIFICATE VALUE ADDED COURSES ACADEMIC YEAR 2022-2023

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#### **ACADAMIC YEAR 2022-2023**

S. NO	NAME OF ADD ON CERTIFICATES PROGRAMS	COURSE	NO OF STUDENTS ENROLLED	ON CERTIFICATE PROGRAMS
1.	Advanced Thermodynamics And Combustion	22ATC01	59	Self-framed course
2.	Applied Computational Fluid  Dynamics.	22ACFD02	56	Self-framed course
3.	Advanced Research Techniques in Homeopathic System of Medicine.	22ARTHSM03	30	Self-framed course
4.	An Introduction to Indian Literacy Theory.	22IILT04	29	Self-framed course
5.	A Basic Course in Machine Learning.	22BCML05	55	Self-framed course
6.	Adolescent Nutrition.	22AN06	57	Self-framed course
7.	Analytical Techniques in Biochemistry.	22ATB07	59	Self-framed course
8.	Artificial Intelligence Using Prolog Programming.	22AIUPP08	58	Self-framed course
9.	Mobile Health Application in Pharmacy.	AMHAP09	116 PI	Self-framed course RING FRAMACY: UTF OF PHARMACY: R (PO), SANKARI (TX). R (PO), 637301.

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

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#### ADD ON COURSE - ENROLLMENT LIST

NAME OF ADD ON COURS: ADVANCED THERMODYNAMICS AND COMBUSION

**COURSE INSTRUCTORS**: Dr,G.SEKAR

**YEAR OFFERED** : 1<sup>st</sup> SEM B.PHARM

**COURSE DURATION**: 36 HRS

S.NO	NAME OF THE STUDENT	<b>REGISTER NO</b>	COURSE		
1.	ABINESH. S	560021523501	1 st B.Pharm		
2.	ABISHEK.B	560021523502	1 st B.Pharm		
3.	ABISURYA .C	560021523503	1 st B.Pharm		
4.	ANANDASIVAM.T	560021523504	1 st B.Pharm		
5.	ANBU .R	560021523505	1 st B.Pharm		
6.	ARAVINTH.M	560021523506	1 st B.Pharm		
7.	ARCHANA.A	560021523507	1 st B.Pharm		
8.	ARIVILKUMAR.P	560021523508	1 st B.Pharm		
9.	ARUN .A	560021523509	1 st B.Pharm		
10.	ARUN KUMAR .K	560021523510	1 st B.Pharm		
11.	ARUNKUMAR.M	560021523511	1 st B.Pharm		
12.	BALAMURUGAN.B	560021523512	1 st B.Pharm		
13.	BATHRINATH.A	560021523513	1 st B.Pharm		
14.	BOOPATHI.G	560021523514	1 st B.Pharm		
15.	BOOPATHI.P	560021523515	1 st B.Pharm		
16.	CHITHARTHAS M	560021523516 INC	IPAL1 st B.Pharm		

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and The Directorate of Medical Education, Chennai.

17.	DEVIPRIYA.K	560021523517	1 st B.Pharm
18.	DHATCHNAMOORTHI.K	560021523518	1 st B.Pharm
19.	DHIVYA.N	560021523519	1 st B.Pharm
20.	GAYATHRI.S	560021523521	1 st B.Pharm
1.	GOPIKA.K	560021523522	1 st B.Pharm
2.	GOPI.K	560021523523	1 st B.Pharm
3.	GURUMOORTHI.M	560021523524	1 st B.Pharm
4.	HARIPRIYA.K	560021523525	1 st B.Pharm
5.	JOTHIPRAKASH.P	560021523526	1 st B.Pharm
6.	KARTHICK KANNAN.S	560021523527	1 st B.Pharm
7.	KARTHICK.K	560021523528	1 st B.Pharm
8.	KARTHIKEYAN.M	560021523529	1 st B.Pharm
9.	KAVIBHARATHI.S	560021523530	1 st B.Pharm
0.	KAVIYA .S	560021523531	1 st B.Pharm
1.	KESAVAN.P	560021523532	1 st B.Pharm
2.	KIRUBANIDHI.R	560021523533	1 st B.Pharm
3.	KIRUTHIKA.P	560021523534	1 st B.Pharm
4.	MEGALA.G	560021523535	1 st B.Pharm
5.	MOHAMMED KABEER.A	560021523536	1 st B.Pharm
6.	RANISH.G	560021523537	1 st B.Pharm
7.	SARAN MOHAN.R	560021523538	1 st B.Pharm
8.	SASIKALA.G	560021528559 PRINCIPAL.	1 st B.Pharm

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.

39.	SATHYA JASMINE.A	560021523540	1 st B.Pharm
40.	SETHURAMAN.P	560021523541	1 st B.Pharm
41.	SOWMIYA.D	560021523542	1 st B.Pharm
42.	SRIGANTH.K	560021523543	1 st B.Pharm
43.	SUGASHINI.M	560021523544	1 st B.Pharm
44.	SUNDHAR.S	560021523545	1 st B.Pharm
45.	SURIYA.M	560021523546	1 st B.Pharm
46.	SYED ABDULLA.A	560021523547	1 st B.Pharm
47.	TAMILMANI.P	560021523548	1 st B.Pharm
48.	THIRUMALAI.R	560021523549	1 st B.Pharm
49.	THIRUMENINATHAN.M	560021523550	1 st B.Pharm
50.	UMA SHANKARI.E	560021523551	1 st B.Pharm
51.	VAITHEESWARI.V	560021523552	1 st B.Pharm
52.	VIGNESH.C	560021523553	1 st B.Pharm
53.	VIGNESH.S	560021523554	1 st B.Pharm
54.	VIJAYASARATHI.S	560021523555	1 st B.Pharm
55.	VIMAL.R	560021523556	1 st B.Pharm
56.	VINOTHINI.A	560021523557	1 st B.Pharm
57.	VISHALATCHI.K	560021523558	1 st B.Pharm
58.	YAZHINI.B	560021523559	1 st B.Pharm
59.	S.YUVAKIRUTHIOA	560021523560	1 st B.Pharm

PRINCIPAL.

SS INSTITUTE OF PHARMACY,
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SALEM -637301.

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### ADD ON COURSE - ENROLLMENT LIST

NAME OF ADD ON COURS: ADVANCED THERMODYNAMICS AND COMBUSION

COURSE INSTRUCTORS : Dr,G.SEKAR

YEAR OFFERED

: I SEM B.PHARM

COURSE DURATION

: 36 HRS

S.NO	NAME OF THE	REGISTER			AT	ΓENDA	NCE	
3NU	STUDENT	NO	6/6/22	7/6/22	8/6/22	9/6/22	10/6/22	13/6/22
1.	ABINESH. S	560021523501	1/2	NQ	Air	102	Al)	Ri
2.	ABISHEK.B	560021523502	1.42	7.54	8.374	3.44	8,44	13.3
3.	ABISURYA .C	560021523503	MAKE	CAL	02	04-	The -	011
4.	ANANDASIVAM.T	560021523504	1905r	133	100	des	701	AU
5.	ANBU .R	560021523505	40	9	人	-10/	4	<del>(1</del>
6.	ARAVINTH.M	560021523506	A.	1. V	Δ.	-Ka	6	<i>d</i> =
7.	ARCHANA.A	560021523507	A	A.	A	A	A	A
8.	ARIVILKUMAR.P	560021523508	d'y	Ø-J	MA.	AJ	A.A	BU
9.	ARUN .A	560021523509	Ask	NaAs.			Add	14.1/
10.	ARUN KUMAR .K	560021523510	ALL	AX	-111	- All	. AlA	1412
11.	ARUNKUMAR.M	560021523511	NA.			Arm.	NA.A	AW
12.	BALAMURUGAN.B	560021523512	1888	6-0	ala	260	620	000
13.	BATHRINATH.A	560021523513	M.	X.A	NW.	XX	3	(XXX)
14.	BOOPATHI.G	560021523514	a col	907	9 19_	974	46)	48
15.	BOOPATHI.P	560021523515	PLAP	D.161	D.P.J.	D.1-1.9	Dan	D42
16.	CHITHARTHA.M	560021523516	nec	na	Mich	na	MUL	Mich
17.	DEVIPRIYA.K	560021523517	1000	2300	().w	120	120	00
18.	DHATCHNAMOORTHI.K	560021523518	Pasip	(Soil)	Regit	00 p	Degip	(DOG)
19.	DHIVYA.N	560021523519	deit	shir	stavis	<b>Chill</b>	433	July 1
20.	GAYATHRI.S	560021523521	$\Omega$	64	Gal	7.4	Cal.	$\alpha_{JL}$
21.	GOPIKAK	560021523522	1,64	Sec.	Goole	Groto	Cycep Ks	Georg
22.	GOPI	560021523523	Bi (		101	Ri	Bi	Rei
23.	GUR MOORTHING	560021523524		ma	Will	HU	4.04	4.10
24.	HARIPAIYA.K	560021523525	W.	ST IP	W.	, No.	76-1	7 3
25.	JOTH RAKASH P	560021523526	evitU	NF I	HARM	OTAGE.	Jak	XIII.
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NH-544, Kuppanur (Po), Sankari (Tk), Salem(Dt) - 637301, Tanulhathoffmanacy.

Phone: 04283 241080 | E-mail: ssip1718@gmail.com | Website: www.ssipnorphotocom | 637301.

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26.	KARTHICK KANNAN.S	560021523527	04	84	Ry	Ou_	84	Rs
27.	KARTHICK.K	560021523528	4.De	12 Fc	a ede	wale	KEAC	nell
28.	KARTHIKEYAN.M	560021523529	MA	MA	Mak	(M)	Mil	MI
29.	KAVIBHARATHI.S	560021523530		( <b>a</b> a)		45	4	
30.	KAVIYA .S	560021523531	8/2-	82,	8/-	8/4	8/5	9/4
31.	KESAVAN.P	560021523532					2	1594
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33.	KIRUTHIKA.P	560021523534	1/38	Bro	facil	Yac	(odf)	-6(f
34.	MEGALA.G	560021523535		OR4		72	(KX)	4/49
35.	MOHAMMED	560021523536	<b>10</b>	6	dy.	12/	9	457
	KABEER.A	300021323330	) T	1	100	8	2	2>-
36.	RANISH.G	560021523537	64	087	691	03	10,97	08
37.	SARAN MOHAN.R	560021523538	40-	(2) Y	794	49.4	<u> </u>	80
38.	SASIKALA.G	560021523539	6.448	250	<i>7</i> 00	90	550	33.4
39.	SATHYA JASMINE.A	560021523540	CALA	Get	(29)	Cal	Sel	55
40.	SETHURAMAN.P	560021523541			(1)	XX.	W-	
41.	SOWMIYA.D	560021523542	6440	PUAD)	Chies	SWED	640	GW1
42.	SRIGANTH.K	560021523543	54	57	57	54	87	Sign
43.	SUGASHINI.M	560021523544	Luga	Sug	1,00	1630	GW	Seg
44.	SUNDHAR.S	560021523545	30	8-	8-	S.	3~0	W
45.	SURIYA.M	560021523546	Mol	MR	MR	MM	Mil	MR
46.	SYED ABDULLA.A	560021523547	1	七工	FA	Azul	九川	A.w
47.	TAMILMANI.P	560021523548	N	Oy		172-	12	Ta.
48.	THIRUMALAI.R	560021523549	R-AL	25/14	12-43	1-ds	2-15	p1-44)
49.	THIRUMENINATHAN.	560021523550	MM	ne	War	MOT.	Mer	, w
50.	UMA SHANKARI.E	560021523551	EST	E E IV	F96-	E.V.	EVA	E Par
51.	VAITHEESWARLV	560021523552	101	WIT	Yes	ne	120	a W
52.	VIGNESH.C	560021523553	Cash	Les	851	(ZZI)	0.00	30
53.	VIGNESH.S	560021523554	s.vig	3.V.g	يزه ي	Sing	8.Viq	s. vig
54.	VIJAYASARATHI.S	560021523555	James.	811	ovil.	8514	30	81
55.	VIMAL.R	560021523556	There	March	low	juno!	wind	
56.	VINOTHERA	560021523557	र्गन्त-	15°	1		60	970
57.	VISHAL ATCHING	560021523558	Visil	W.V	MH	(M)	63	(عوالا
58.	YAZIBILB	560021523559	30	San	Water	180	Les	you,
59.	S.YUVAKIRUTHIG	560021523560	Qu.	O WAY	West	Sect	GOL	sn/
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NH-544, Kuppanur (Po), Sankari (Tk), Salem (Dt) 637301, Tanginan of Priesmacy.
Phone: 04283 241080 | E-mail: ssip1718@gmail.com | Website: www.ssiptempanor.po), Sankari (Tk)



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NAME OF THE	DECISTED			AT'	ΓENDA	NCE	
STUDENT	NO	14/6/22	15/6/22	16/6/22	17/6/22	18/6/22	21/6/22
ABINESH. S	560021523501	1412	Ril	Ma	AQ.	N)	AW
ABISHEK.B	560021523502	22/2	24/2	6 A4-	5.4	6. J.	
ABISURYA .C	560021523503	MU.	1/24	7/12/	No	$\Delta r_{\rm o}$	1200
ANANDASIVAM.T	560021523504	-41	44	181	dec	du	1200
ANBU .R	560021523505	12/	16				12
ARAVINTH.M	560021523506	tat.	AL	Ai	A.	1	4
ARCHANA.A	560021523507	A.S	40	0	32	<b>杰</b>	A.
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ARUN .A	560021523509	The	Nik	Lin	Lik	<b>1</b> . Vu.	The
ARUN KUMAR .K	560021523510	AR	Â		100	AN	Av
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BOOPATHI.P	560021523515	-				7 1	7
CHITHARTHA.M	560021523516	***************************************	***********************			M.C.	Ma
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DHATCHNAMOORTHI.K	560021523518			· ·	(DO)		mail
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GURUMOORTHI.M	560021523524	WIM	dit	ii.W	Killer	ally	in With
HARIPRIYA.K	560021523525	42	444	Na al	84	15/3	46-6
JOTHIPRAKASH.P	560021523526	1	रेरी	1/14	(	7.1	£.1.
KARTHICK KANNAN.S	560021523527	84		J.A	Cal	## T	C.
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RUTHIKA.P GALA.G HAMMED BEER.A NISH.G RAN MOHAN.R SIKALA.G THYA JASMINE.A THURAMAN.P WMIYA.D GANTH.K GASHINI.M NDHAR.S RIYA.M ED ABDULLA.A MILMANI.P	560021523534 560021523535 560021523536 560021523537 560021523538 560021523540 560021523541 560021523542 560021523543 560021523544 560021523545 560021523546 560021523546	Con Con State of the Control of the	Control of the second of the s	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	09 5 CM 2 0 5 CM 2 CM	DE STATE OF THE ST
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ADD ON COURSE	ADVANCED THERMODYNAMICS AND COMBUSTION
DEPARTMENT	PHARMACEUTICS
ACADEMIC YEAR	2022-2023
DATE	06/06/2022 to 21/06/2022
VENUE	SEMINAR HALL
NAME: ABRODIUA .C	COURSE: 0 8000

#### ANSWER ALL THE QUESTIONS:

#### MULTIPLE CHOICE QUESTIONS

- 1. In thermodynamics, what does the first law of thermodynamics state?
  - Energy cannot be created or destroyed, only transformed.
  - b) Entropy always increases in an isolated system.
  - c) The temperature of a system remains constant.
  - d) All systems eventually reach thermal equilibrium.
- 2. Which of the following is the correct expression for the second law of thermodynamics?
  - a) Heat flows spontaneously from cold to hot bodies.
  - b) The entropy of an isolated system always increases.
  - c) Energy can be converted entirely into work.
  - d) The internal energy of a system remains constant.
- 3. What is the main purpose of the Carnot cycle in thermodynamics?
  - a) To describe an idealized heat engine with maximum efficiency
  - b) To calculate the exact work output of any heat engine
  - r) To measure the heat capacity of a system
  - d) To describe the behavior of real gases
- 4. In combustion, what is the significance of the stoichiometric air-fuel ratio?
  - It ensures complete combustion with no excess oxygen.
  - b) It maximizes the production of carbon monoxide
  - c) It minimizes the heat released during combustion.
  - d) It ensures the formation of soot.

DATE:21/06/2022

MARKS:15



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- 5. Which type of combustion occurs when there is insufficient oxygen, leading to the formation of carbon monoxide and soot?
  - a) Complete combustion
  - b) Incomplete combustion
  - c) Spontaneous combustion
  - d) Premixed combustion
- 6. In advanced thermodynamics, what is the Gibbs free energy used to predict?
  - a) The amount of heat transferred in a reaction
  - The spontaneity of a process at constant pressure and temperature
  - c) The entropy change of a system
  - d) The efficiency of a heat engine
- 7. Which of the following is an example of an endothermic reaction?
  - a) Combustion of methane
  - b) Formation of ice from water
  - Photosynthesis in plants
  - d) Condensation of steam
- **8.** In combustion theory, what is the flame speed?
  - a) The speed at which the flame front moves through the unburned gas mixture
  - b) The velocity of the exhaust gases leaving the combustion chamber
  - c) The speed of sound in the combustion mixture
  - 1) The speed at which fuel is injected into the combustion chamber
- 9. What does the term "adiabatic flame temperature" refer to in combustion?
  - a) The temperature at which combustion begins
  - b) The maximum temperature that can be achieved by a flame without heat loss
  - c) The temperature at which all fuel is consumed
  - d) The temperature at which the flame extinguishes
- 10. Which of the following cycles is commonly used in power generation involving combustion?
  - a) Carnot cycle
  - (b) Brayton cycle
  - c) Stirling cycle
  - d) Rankine cycle

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- 11.In the context of internal combustion engines, what is "knocking"?
  - a) A smooth and steady combustion process
  - b) The pre-ignition of the fuel-air mixture, causing shock waves
    - c) The complete combustion of the fuel mixture
    - d) A decrease in engine efficiency
- 12. What is the primary pollutant produced by incomplete combustion of fossil fuels?
  - a) Carbon dioxide (CO2)
  - b) Water vapor (H2O)
  - & Carbon monoxide (CO)
  - d) Nitrogen oxides (NOx)
- 13. In advanced thermodynamics, which concept helps in understanding the efficiency limits of heat engines?
  - a) Entropy
  - b) Enthalpy
  - c) Gibbs free energy
  - A Exergy
- **14.Which** of the following **para**meters increases with the increase in temperature during a combustion reaction?
  - a) Activation energy
  - ∠b) Reaction rate
    - c) Fuel density
    - d) Flame quenching distance
- 15. Which factor primarily determines the ignition delay in a combustion process?
  - a) Pressure of the fuel-air mixture
  - b) Temperature of the mixture
  - c) Chemical composition of the fuel
  - d) Volume of the combustion chamber

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ADD ON COURSE	ADVANCED THERMODYNAMICS AND COMBUSTION
DEPARTMENT	PHARMACEUTICS
ACADEMIC YEAR	2022-2023
DATE	06/06/2022 to 21/06/2022

**ANSWER KEY:** 

DATE:21/06/2022

MULTIPLE CHOICE QUESTIONS

MARKS:15

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c) Stirling cycle

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### ADD ON COURSE - MARK LIST

NAME OF ADD ON COURS : ADVANCED THERMODYNAMICS AND COMBUSION

**COURSE INSTRUCTORS**: Dr,G.SEKAR

**YEAR OFFERED** : 2<sup>nd</sup>SEM B.PHARM

**COURSE DURATION**: 36HRS

S.NO	NAME OF STUDENT	REGISTER NO	MARKS (15)	PERCENTAGE (%)
1.	ABINESH. S	560021523501	12	80%
2.	ABISHEK.B	560021523502	13	86%
3.	ABISURYA .C	560021523503	14	93%
4.	ANANDASIVAM.T	560021523504	12	80%
5.	ANBU .R	560021523505	13	86%
6.	ARAVINTH.M	560021523506	12	80%
7.	ARCHANA.A	560021523507	13	86%
8.	ARIVILKUMAR.P	560021523508	12	80%
9.	ARUN .A	560021523509	14	93%
10.	ARUN KUMAR .K	560021523510	12	80%
11.	ARUNKUMAR.M	560021523511	13	86%
12.	BALAMURUGAN.B	560021523512	12	80%
13.	BATHRINATH.A	560021523513	15	100%
14.	BOOPATHI.G	560021523514	13	86%
15.	BOOPATHI.P	560021523515	13	86%
16.	CHITHARTHA.M	560021523516	1/1/1/2/1	80%

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20.	GAYATHRI.S	560021523521	13	86%
21.	GOPIKA.K	560021523522	15	100%
22.	GOPI.K	560021523523	13	86%
23.	GURUMOORTHI.M	560021523524	12	80%
24.	HARIPRIYA.K	560021523525	13	86%
25.	JOTHIPRAKASH.P	560021523526	13	86%
26.	KARTHICK KANNAN.S	560021523527	14	93%
27.	KARTHICK.K	560021523528	14	93%
28.	KARTHIKEYAN.M	560021523529	13	86%
29.	KAVIBHARATHI.S	560021523530	13	86%
30.	KAVIYA .S	560021523531	12	80%
31.	KESAVAN.P	560021523532	13	86%
32.	KIRUBANIDHI.R	560021523533	15	100%
33.	KIRUTHIKA.P	560021523534	15	100%
34.	MEGALA.G	560021523535	15	100%
35.	MOHAMMED KABEER.A	560021523536	14	93%
36.	RANISH.G	560021523537	13	86%
37.	SARAN MOHAN.R	560021523538	12	80%
38.	SASIKALA.G	560021523539	13	86%
39.	SATHYA JASMINE.A	560021523540	14	93%
40.	SETHURAMAN.P	560021523541	13	86%
41.	SOWMIYA.D	560021523542	14	93%
42.	SRIGANTH.K	560021523543	13	86%
43.	SUGASHINI.M	560021523544	12	80%
44.	SUNDHAR.S	560021523545	14	93%
45.	SURIYA.M STE OF O	560021523546	13	W86%
46.	SYED ABOULLA.A	560021523547	14 RINCI	PAG3% PHARMACY.
47.	TAMILMAN, P	56002152354855 I	100	SASGERI (TX).

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48.	THIRUMALAI.R	560021523549	12	80%
49.	THIRUMENINATHAN.M	560021523550	13	86%
50.	UMA SHANKARI.E	560021523551	14	93%
51.	VAITHEESWARI.V	560021523552	13	86%
52.	VIGNESH.C	560021523553	12	80%
53.	VIGNESH.S	560021523554	13	86%
54.	VIJAYASARATHI.S	560021523555	13	86%
55.	VIMAL.R	560021523556	14	93%
56.	VINOTHINI.A	560021523557	14	93%
57.	VISHALATCHI.K	560021523558	15	100%
58.	YAZHINI.B	560021523559	14	93%
59.	S.YUVAKIRUTHIGA	560021523560	15	100%

TOTAL NUMBER OF STUDENT: 59

TOTAL NUMBER OF PERCENTAGE: 88.2%

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### **ADD ON COURSE: SUMMARY REPORT**

Course code and Name: 22ATC01/ Advanced Thermodynamics And Combustion

**Date Of Add On Programme**: 06/06/2022 to 21/06/2022

**Course Duration**: 36 Hours

Year Offered: 2<sup>nd</sup> Sem B.Pharm

Course Instructors: Dr.G.Sekar., M.Pharm., Ph.D.

#### **Course Outcomes:**

➤ Mastering advanced thermodynamic concepts

➤ Analyzing thermodynamic cycles and process

Understanding combustion chemistry and kinetics

Designing and optimizing combustion system

Course Type: Add on Course

#### **Assessment Mode:**

**Total Duration**: 36 Hours

**Number of Participants**: 59

Scheme of Exam: MCQ type, offline Mode

Date of Exam: 21/06/2022

Course Coordinator

W.

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ONE DAY WORKSHOP
Organized by
Department of
PHARMACEUTICS

V. JAYASURYA

HAS APPRICATED FOR HIS / HER
PARTICIPATION IN ONE DAY SEMINAR ON
ADVANCED THERMODYANMICS AND

COMBUSTION 06/96/2022 TO 21/06/2021

COORDINATOR

PHARMACY. SANKARI ITW.

PRINCIPAL





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CA. BOODATHI

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ADVANCED THERMODYANMICS AND

COMBUSTION 06/06/2022 TØ 21/06/2021

James

PRINCIPAL

COORDINATOR







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#### STUDENT FEEDBACK FORM

STUDENT NAME:

Chithastha. M

DATE: 21/6/2022

YEAR/COURSE:

B. Phasm - I sem

NAME OF THE ADD ON COURSE: Advanced Thermodyanamic and combustion

COURSE CODE: 22 A7 CO1

DURATION: 36 has

### **EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
How was the objectives of the training	1			
How satisfied are you with our seminar		7	***************************************	******
How would you rate the clarity and effectiveness of the presenter's delivery	1	*		
Was the seminar duration appropriate		1		
How engaging and interactive was the seminar				
Usefulness of the information provided			***************************************	
Overall quality of session				

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#### **PHOTOGRAPH**

DATE: 09/06/22

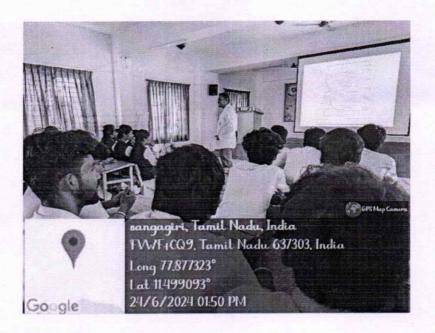
#### ADVANCED THERMODYNAMICS AND COMBUSION

NAME OF ADD ON COURS: ADVANCED THERMODYNAMICS AND COMBUSION

**COURSE INSTRUCTORS**: Dr,G.SEKAR

YEAR OFFERED : 2<sup>nd</sup> SEM B.PHARM

**COURSE DURATION** : 36 HRS



Add-on course regarding the Topic Application of Advanced Thermodynamics And Combusion 9/6/22 the speech delivered By **Dr.G.Sekar.,M.Pharm.,Ph.D**. which was an interactive session and students could able to understand the Application of Advanced Thermodynamics And Combusion in the fields of pharmaceutical sciences

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