



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/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,

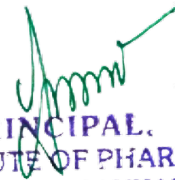
We are requesting you to grant permission to conduct add-on course in the seminar hall on **06/06/2022 to 21/06/2022**. We wish to conduct add on course on the title “**Advanced Thermodynamics And Combustion**”. This add-on course program would be a great opportunity for students to learn and that would help to shape the students.

Thanking you,

Yours truly,


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: 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 |

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.

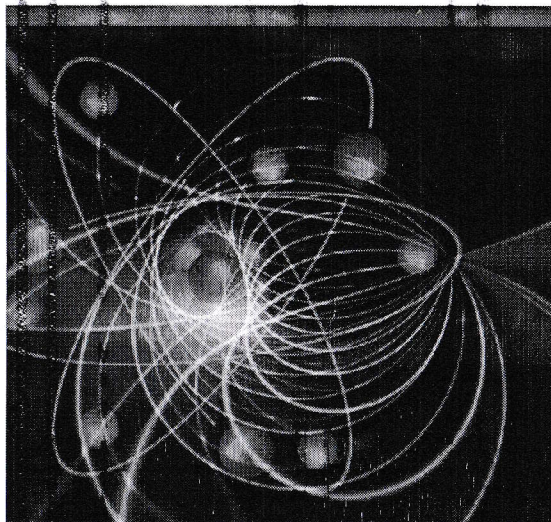


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WEBSITE: WWW.SSIP.EDU.IN

ADDRESS:

SS INSTITUTE OF
PHARMACY,
SANKARI, SALEM-637 301

COURSE TITLE

RESOURCE PERSON

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

TOPICS-

1. Advanced Equations of State
2. Chemical Reaction Thermodynamics
3. Combustion Kinetics
4. Combustion in Engines



**SS INSTITUTE OF
PHARMACY,
SANKARI**

THERMODYNAMICS



**DEPARTMENT OF
PHARMACEUTICS**



[Signature]
**PRINCIPAL,
SS INSTITUTE OF PHARMACY,
SANKARI (PO), SANKARI (TK),
SALEM-637301**

VENTILATION SEMINAR HALL

DATE : 06/06/2022-21/06/2022



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SYLLABUS

ADVANCED THERMODYNAMICS AND COMBUSTION

| Sl. No. | Topic | DATE |
|---------|---|-------------------------|
| 1 | Fundamentals of Thermodynamics <ul style="list-style-type: none">- Laws of Thermodynamics- Thermodynamic Properties of Pure Substances- Chemical Thermodynamics | 6/6/2022- 7/6/2022 |
| 2 | Introduction to Combustion <ul style="list-style-type: none">- Combustion Fundamentals- Kinetics of Combustion- Combustion of Hydrocarbon Fuels | 8/6/2022- 10/6/2022 |
| 3 | Flame Dynamics and Combustion in Engines <ul style="list-style-type: none">- Flame Dynamics and Stability- Combustion in Internal Combustion Engines and Gas Turbines | 13/6/2022- 15/6/2022 |
| 4 | Environmental Impact and Pollution Control <ul style="list-style-type: none">- Pollutants Formation in Combustion- Emission Control Strategies | 16/6/2022- 17/6/2022 |
| 5 | Advanced and Sustainable Combustion Technologies <ul style="list-style-type: none">- Advanced Combustion Technologies- Alternative Fuels and Sustainable Combustion Practices | 18/6/2022- 21/6/2022 |

RESOURCE PERSON: Dr. G. Sekar

TOTAL HOURS: 36Hrs



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



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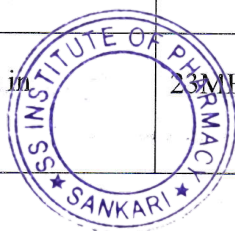
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and The Directorate of Medical Education, Chennai.

ACADAMIC YEAR 2022-2023

| S. NO | NAME OF ADD ON CERTIFICATES PROGRAMS | COURSE CODE | NO OF STUDENTS ENROLLED | TYPE OF ADD 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. | 23MHAP09 | 116 | Self-framed course |



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ADD ON COURSE – ENROLLMENT LIST

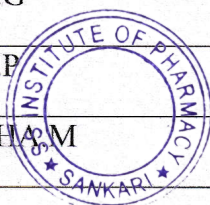
NAME OF ADD ON COURSE : ADVANCED THERMODYNAMICS AND COMBUSTION

COURSE INSTRUCTORS : Dr.G.SEKAR

YEAR OFFERED : 1st SEM B.PHARM

COURSE DURATION : 36 HRS

| S.NO | NAME OF THE STUDENT | REGISTER NO | 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. | CHITHARTHA.M | 560021523516 | 1 st B.Pharm |



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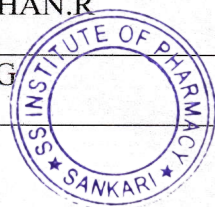


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| | | | |
|-----|-------------------|--------------|-------------------------|
| 17. | DEVIPRIYA.K | 560021523517 | 1 st B.Pharm |
| 18. | DHATCHNAMOORTHY.K | 560021523518 | 1 st B.Pharm |
| 19. | DHIVYA.N | 560021523519 | 1 st B.Pharm |
| 20. | GAYATHRI.S | 560021523521 | 1 st B.Pharm |
| 21. | GOPIKA.K | 560021523522 | 1 st B.Pharm |
| 22. | GOPI.K | 560021523523 | 1 st B.Pharm |
| 23. | GURUMOORTHY.M | 560021523524 | 1 st B.Pharm |
| 24. | HARIPRIYA.K | 560021523525 | 1 st B.Pharm |
| 25. | JOTHIPRAKASH.P | 560021523526 | 1 st B.Pharm |
| 26. | KARTHICK KANNAN.S | 560021523527 | 1 st B.Pharm |
| 27. | KARTHICK.K | 560021523528 | 1 st B.Pharm |
| 28. | KARTHIKEYAN.M | 560021523529 | 1 st B.Pharm |
| 29. | KAVIBHARATHI.S | 560021523530 | 1 st B.Pharm |
| 30. | KAVIYA .S | 560021523531 | 1 st B.Pharm |
| 31. | KESAVAN.P | 560021523532 | 1 st B.Pharm |
| 32. | KIRUBANIDHI.R | 560021523533 | 1 st B.Pharm |
| 33. | KIRUTHIKA.P | 560021523534 | 1 st B.Pharm |
| 34. | MEGALA.G | 560021523535 | 1 st B.Pharm |
| 35. | MOHAMMED KABEER.A | 560021523536 | 1 st B.Pharm |
| 36. | RANISH.G | 560021523537 | 1 st B.Pharm |
| 37. | SARAN MOHAN.R | 560021523538 | 1 st B.Pharm |
| 38. | SASIKALA.G | 560021523539 | 1 st B.Pharm |



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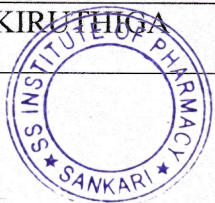


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| | | | |
|-----|-------------------|--------------|-------------------------|
| 39. | SATHYA JASMINE.A | 560021523540 | 1 st B.Pharm |
| 40. | SETHURAMAN.P | 560021523541 | 1 st B.Pharm |
| 41. | SOWMIYA.D | 560021523542 | 1 st B.Pharm |
| 42. | SRIGANTH.K | 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 SHANKAR.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. | VINOTHINLA | 560021523557 | 1 st B.Pharm |
| 57. | VISHALATCHI.K | 560021523558 | 1 st B.Pharm |
| 58. | YAZHINI.B | 560021523559 | 1 st B.Pharm |
| 59. | S.YUVAKIRUTHIGA | 560021523560 | 1 st B.Pharm |



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ADD ON COURSE – ENROLLMENT LIST

NAME OF ADD ON COURSE : ADVANCED THERMODYNAMICS AND COMBUSTION

COURSE INSTRUCTORS : Dr.G.SEKAR

YEAR OFFERED : I SEM B.PHARM

COURSE DURATION : 36 HRS

| S.NO | NAME OF THE STUDENT | REGISTER NO | ATTENDANCE | | | | | |
|------|---------------------|--------------|------------|--------|--------|--------|---------|---------|
| | | | 6/6/22 | 7/6/22 | 8/6/22 | 9/6/22 | 10/6/22 | 13/6/22 |
| 1. | ABINESH. S | 560021523501 | AB | AB | AB | AB | AB | AB |
| 2. | ABISHEK.B | 560021523502 | AB | AB | AB | AB | AB | AB |
| 3. | ABISURYA .C | 560021523503 | AB | AB | AB | AB | AB | AB |
| 4. | ANANDASIVAM.T | 560021523504 | AB | AB | AB | AB | AB | AB |
| 5. | ANBU .R | 560021523505 | AB | AB | AB | AB | AB | AB |
| 6. | ARAVINTH.M | 560021523506 | AB | AB | AB | AB | AB | AB |
| 7. | ARCHANA.A | 560021523507 | AB | AB | AB | AB | AB | AB |
| 8. | ARIVILKUMAR.P | 560021523508 | AB | AB | AB | AB | AB | AB |
| 9. | ARUN .A | 560021523509 | AB | AB | AB | AB | AB | AB |
| 10. | ARUN KUMAR .K | 560021523510 | AB | AB | AB | AB | AB | AB |
| 11. | ARUNKUMAR.M | 560021523511 | AB | AB | AB | AB | AB | AB |
| 12. | BALAMURUGAN.B | 560021523512 | AB | AB | AB | AB | AB | AB |
| 13. | BATHRINATH.A | 560021523513 | AB | AB | AB | AB | AB | AB |
| 14. | BOOPATHI.G | 560021523514 | AB | AB | AB | AB | AB | AB |
| 15. | BOOPATHI.P | 560021523515 | AB | AB | AB | AB | AB | AB |
| 16. | CHITHARTHA.M | 560021523516 | AB | AB | AB | AB | AB | AB |
| 17. | DEVIPRIYA.K | 560021523517 | AB | AB | AB | AB | AB | AB |
| 18. | DHATCHNAMOORTHIL.K | 560021523518 | AB | AB | AB | AB | AB | AB |
| 19. | DHIVYA.N | 560021523519 | AB | AB | AB | AB | AB | AB |
| 20. | GAYATHRI.S | 560021523521 | AB | AB | AB | AB | AB | AB |
| 21. | GOPIKA.K | 560021523522 | AB | AB | AB | AB | AB | AB |
| 22. | GOPIKA.K | 560021523523 | AB | AB | AB | AB | AB | AB |
| 23. | GURIMOORTHIL. | 560021523524 | AB | AB | AB | AB | AB | AB |
| 24. | HARIPRIYA.K | 560021523525 | AB | AB | AB | AB | AB | AB |
| 25. | JOTHIPRAKASH.P | 560021523526 | AB | AB | AB | AB | AB | AB |

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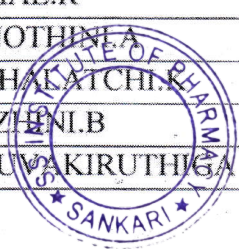
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| | | | | | | | | |
|-----|-----------------------|--------------|----|----|----|----|----|----|
| 26. | KARTHICK KANNAN.S | 560021523527 | Ka | Ka | Ka | Ka | Ka | Ka |
| 27. | KARTHICK.K | 560021523528 | Ka | Ka | Ka | Ka | Ka | Ka |
| 28. | KARTHIKEYAN.M | 560021523529 | Mk | Mk | Mk | Mk | Mk | Mk |
| 29. | KAVIBHARATHI.S | 560021523530 | Kv | Kv | Kv | Kv | Kv | Kv |
| 30. | KAVIYA .S | 560021523531 | Kv | Kv | Kv | Kv | Kv | Kv |
| 31. | KESAVAN.P | 560021523532 | Ks | Ks | Ks | Ks | Ks | Ks |
| 32. | KIRUBANIDHI.R | 560021523533 | Kr | Kr | Kr | Kr | Kr | Kr |
| 33. | KIRUTHIKA.P | 560021523534 | Kp | Kp | Kp | Kp | Kp | Kp |
| 34. | MEGALA.G | 560021523535 | Me | Me | Me | Me | Me | Me |
| 35. | MOHAMMED KABEER.A | 560021523536 | Ma | Ma | Ma | Ma | Ma | Ma |
| 36. | RANISH.G | 560021523537 | Ra | Ra | Ra | Ra | Ra | Ra |
| 37. | SARAN MOHAN.R | 560021523538 | Sm | Sm | Sm | Sm | Sm | Sm |
| 38. | SASIKALA.G | 560021523539 | Sa | Sa | Sa | Sa | Sa | Sa |
| 39. | SATHYA JASMINE.A | 560021523540 | Sa | Sa | Sa | Sa | Sa | Sa |
| 40. | SETHURAMAN.P | 560021523541 | Se | Se | Se | Se | Se | Se |
| 41. | SOWMIYA.D | 560021523542 | So | So | So | So | So | So |
| 42. | SRIGANTH.K | 560021523543 | Sr | Sr | Sr | Sr | Sr | Sr |
| 43. | SUGASHINI.M | 560021523544 | Su | Su | Su | Su | Su | Su |
| 44. | SUNDHAR.S | 560021523545 | Su | Su | Su | Su | Su | Su |
| 45. | SURIYA.M | 560021523546 | Su | Su | Su | Su | Su | Su |
| 46. | SYED ABDULLA.A | 560021523547 | St | St | St | St | St | St |
| 47. | TAMILMANI.P | 560021523548 | Ta | Ta | Ta | Ta | Ta | Ta |
| 48. | THIRUMALAI.R | 560021523549 | Th | Th | Th | Th | Th | Th |
| 49. | THIRUMENINATHAN. M | 560021523550 | Th | Th | Th | Th | Th | Th |
| 50. | UMA SHANKARIE | 560021523551 | Us | Us | Us | Us | Us | Us |
| 51. | VAITHEESWARI.V | 560021523552 | Va | Va | Va | Va | Va | Va |
| 52. | VIGNESH.C | 560021523553 | Vi | Vi | Vi | Vi | Vi | Vi |
| 53. | VIGNESH.S | 560021523554 | Vi | Vi | Vi | Vi | Vi | Vi |
| 54. | VIJAYASARATHI.S | 560021523555 | Vj | Vj | Vj | Vj | Vj | Vj |
| 55. | VIMAL.R | 560021523556 | Vi | Vi | Vi | Vi | Vi | Vi |
| 56. | VINOTHINLA | 560021523557 | Vi | Vi | Vi | Vi | Vi | Vi |
| 57. | VISHAKATCHI.K | 560021523558 | Vv | Vv | Vv | Vv | Vv | Vv |
| 58. | YAZHENI.B | 560021523559 | Ya | Ya | Ya | Ya | Ya | Ya |
| 59. | S.YUVAKIRUTHIGA | 560021523560 | Yu | Yu | Yu | Yu | Yu | Yu |



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| S.NO | NAME OF THE STUDENT | REGISTER NO | ATTENDANCE | | | | | |
|------|---------------------|--------------|------------|---------|---------|---------|---------|---------|
| | | | 14/6/22 | 15/6/22 | 16/6/22 | 17/6/22 | 18/6/22 | 21/6/22 |
| 1. | ABINESH. S | 560021523501 | AB | AB | AB | AB | AB | AB |
| 2. | ABISHEK.B | 560021523502 | AB | AB | AB | AB | AB | AB |
| 3. | ABISURYA .C | 560021523503 | AB | AB | AB | AB | AB | AB |
| 4. | ANANDASIVAM.T | 560021523504 | AB | AB | AB | AB | AB | AB |
| 5. | ANBU .R | 560021523505 | AB | AB | AB | AB | AB | AB |
| 6. | ARAVINTH.M | 560021523506 | AB | AB | AB | AB | AB | AB |
| 7. | ARCHANA.A | 560021523507 | AB | AB | AB | AB | AB | AB |
| 8. | ARIVILKUMAR.P | 560021523508 | AB | AB | AB | AB | AB | AB |
| 9. | ARUN .A | 560021523509 | AB | AB | AB | AB | AB | AB |
| 10. | ARUN KUMAR .K | 560021523510 | AB | AB | AB | AB | AB | AB |
| 11. | ARUNKUMAR.M | 560021523511 | AB | AB | AB | AB | AB | AB |
| 12. | BALAMURUGAN.B | 560021523512 | AB | AB | AB | AB | AB | AB |
| 13. | BATHRINATH.A | 560021523513 | AB | AB | AB | AB | AB | AB |
| 14. | BOOPATHI.G | 560021523514 | AB | AB | AB | AB | AB | AB |
| 15. | BOOPATHI.P | 560021523515 | AB | AB | AB | AB | AB | AB |
| 16. | CHITHARTHA.M | 560021523516 | AB | AB | AB | AB | AB | AB |
| 17. | DEVIPRIYA.K | 560021523517 | AB | AB | AB | AB | AB | AB |
| 18. | DHATCHNAMOORTHY.K | 560021523518 | AB | AB | AB | AB | AB | AB |
| 19. | DHIVYA.N | 560021523519 | AB | AB | AB | AB | AB | AB |
| 20. | GAYATHRI.S | 560021523521 | AB | AB | AB | AB | AB | AB |
| 21. | GOPIKA.K | 560021523522 | AB | AB | AB | AB | AB | AB |
| 22. | GOPI.K | 560021523523 | AB | AB | AB | AB | AB | AB |
| 23. | GURUMOORTHY.M | 560021523524 | AB | AB | AB | AB | AB | AB |
| 24. | HARIPRIYA.K | 560021523525 | AB | AB | AB | AB | AB | AB |
| 25. | JOTHIPRAKASH.P | 560021523526 | AB | AB | AB | AB | AB | AB |
| 26. | KARTHICK KANNAN.S | 560021523527 | AB | AB | AB | AB | AB | AB |
| 27. | KARTHICK.K | 560021523528 | AB | AB | AB | AB | AB | AB |
| 28. | KARTHIKEYAN.M | 560021523529 | AB | AB | AB | AB | AB | AB |
| 29. | KAVIJARATHI. | 560021523530 | AB | AB | AB | AB | AB | AB |
| 30. | KAVIYA .S | 560021523531 | AB | AB | AB | AB | AB | AB |
| 31. | KESAVAN.P | 560021523532 | AB | AB | AB | AB | AB | AB |



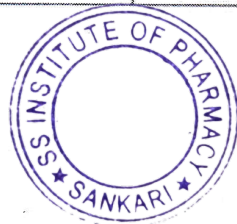
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| | | | | | | | | |
|-----|----------------------|--------------|------|------|------|------|------|------|
| 32. | KIRUBANIDHI.R | 560021523533 | Kir | Kir | Kir | Kir | Kir | Kir |
| 33. | KIRUTHIKA.P | 560021523534 | Kir | Kir | Kir | Kir | Kir | Kir |
| 34. | MEGALA.G | 560021523535 | Meg | Meg | Meg | Meg | Meg | Meg |
| 35. | MOHAMMED KABEER.A | 560021523536 | Moh | Moh | Moh | Moh | Moh | Moh |
| 36. | RANISH.G | 560021523537 | Ran | Ran | Ran | Ran | Ran | Ran |
| 37. | SARAN MOHAN.R | 560021523538 | Sar | Sar | Sar | Sar | Sar | Sar |
| 38. | SASIKALA.G | 560021523539 | Sas | Sas | Sas | Sas | Sas | Sas |
| 39. | SATHYA JASMINE.A | 560021523540 | Sat | Sat | Sat | Sat | Sat | Sat |
| 40. | SETHURAMAN.P | 560021523541 | Seth | Seth | Seth | Seth | Seth | Seth |
| 41. | SOWMIYA.D | 560021523542 | Sow | Sow | Sow | Sow | Sow | Sow |
| 42. | SRIGANTH.K | 560021523543 | Sri | Sri | Sri | Sri | Sri | Sri |
| 43. | SUGASHINI.M | 560021523544 | Sug | Sug | Sug | Sug | Sug | Sug |
| 44. | SUNDHAR.S | 560021523545 | Sun | Sun | Sun | Sun | Sun | Sun |
| 45. | SURIYA.M | 560021523546 | Sur | Sur | Sur | Sur | Sur | Sur |
| 46. | SYED ABDULLA.A | 560021523547 | Syed | Syed | Syed | Syed | Syed | Syed |
| 47. | TAMILMANI.P | 560021523548 | Tam | Tam | Tam | Tam | Tam | Tam |
| 48. | THIRUMALAI.R | 560021523549 | Thir | Thir | Thir | Thir | Thir | Thir |
| 49. | THIRUMENINATHAN.M | 560021523550 | Thir | Thir | Thir | Thir | Thir | Thir |
| 50. | UMA SHANKARI.E | 560021523551 | Uma | Uma | Uma | Uma | Uma | Uma |
| 51. | VAITHEESWARI.V | 560021523552 | Vai | Vai | Vai | Vai | Vai | Vai |
| 52. | VIGNESH.C | 560021523553 | Vig | Vig | Vig | Vig | Vig | Vig |
| 53. | VIGNESH.S | 560021523554 | Vig | Vig | Vig | Vig | Vig | Vig |
| 54. | VIJAYASARATHI.S | 560021523555 | Vij | Vij | Vij | Vij | Vij | Vij |
| 55. | VIMAL.R | 560021523556 | Vim | Vim | Vim | Vim | Vim | Vim |
| 56. | VINOTHINLA | 560021523557 | Vino | Vino | Vino | Vino | Vino | Vino |
| 57. | VISHALATCHI.K | 560021523558 | Vish | Vish | Vish | Vish | Vish | Vish |
| 58. | YAZHINI.B | 560021523559 | Yaz | Yaz | Yaz | Yaz | Yaz | Yaz |
| 59. | S.YUVAKIRUTHIGA | 560021523560 | Yuv | Yuv | Yuv | Yuv | Yuv | Yuv |



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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: <u>ABIRPRIYA C</u> | COURSE: <u>II sem</u> |

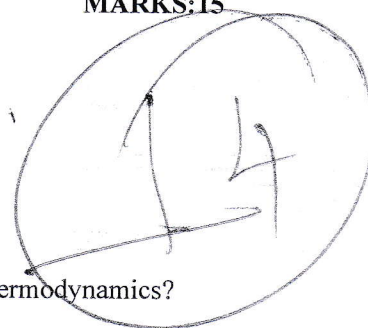
ANSWER ALL THE QUESTIONS:

DATE: 21/06/2022

MULTIPLE CHOICE QUESTIONS

MARKS: 15

- In thermodynamics, what does the first law of thermodynamics state?
☒ a) 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.
- 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.
- 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
☐ c) To measure the heat capacity of a system
☐ d) To describe the behavior of real gases
- In combustion, what is the significance of the stoichiometric air-fuel ratio?
☒ a) 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.



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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
 - ☒ b) 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
 - ☒ c) 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
 - ☒ d) 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 (CO_2)
 - b) Water vapor (H_2O)
 - ☒ c) Carbon monoxide (CO)
 - d) Nitrogen oxides (NO_x)
13. In advanced thermodynamics, which concept helps in understanding the efficiency limits of heat engines?
- a) Entropy
 - b) Enthalpy
 - c) Gibbs free energy
 - ☒ d) Exergy
14. Which of the following parameters 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

- In thermodynamics, what does the first law of thermodynamics state?
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 - All systems eventually reach thermal equilibrium.
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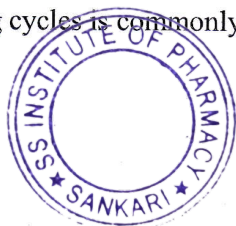
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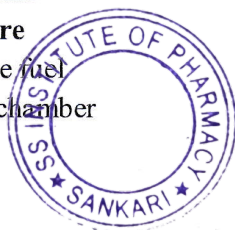
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ADD ON COURSE – MARK LIST

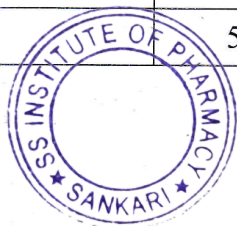
NAME OF ADD ON COURSE : ADVANCED THERMODYNAMICS AND COMBUSTION

COURSE INSTRUCTORS : Dr.G.SEKAR

YEAR OFFERED : 2nd 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 | 12 | 80% |



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| | | | | |
|-----|-------------------|--------------|----|------|
| 20. | GAYATHRI.S | 560021523521 | 13 | 86% |
| 21. | GOPIKA.K | 560021523522 | 15 | 100% |
| 22. | GOPI.K | 560021523523 | 13 | 86% |
| 23. | GURUMOORTHIL.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 | 560021523546 | 13 | 86% |
| 46. | SYED ABULLA.A | 560021523547 | 14 | 93% |
| 47. | TAMILMANI.P | 560021523548 | 13 | 86% |

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| | | | | |
|-----|-------------------|--------------|----|------|
| 48. | THIRUMALAI.R | 560021523549 | 12 | 80% |
| 49. | THIRUMENINATHAN.M | 560021523550 | 13 | 86% |
| 50. | UMA SHANKAR.I.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 : 2nd 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



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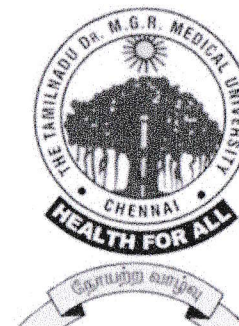
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.....V. JAYASURYA.....

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PARTICIPATION IN ONE DAY SEMINAR ON
ADVANCED THERMODYANMICS AND
COMBUSTION**

06/06/2022 TO 21/06/2021


COORDINATOR




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STUDENT FEEDBACK FORM

STUDENT NAME: Chithartha.M

DATE: 21/6/2022

YEAR/COURSE: B.Pharm - II sem

NAME OF THE ADD ON COURSE: Advanced Thermodynamic and combustion

COURSE CODE: 22A7C01

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 | | ✓ | | |



M. Chy
SIGNATURE

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Affiliated to the Tamilnadu Dr. M.G.R. Medical University,
and The Directorate of Medical Education, Chennai.

PHOTOGRAPH

DATE : 09/06/22

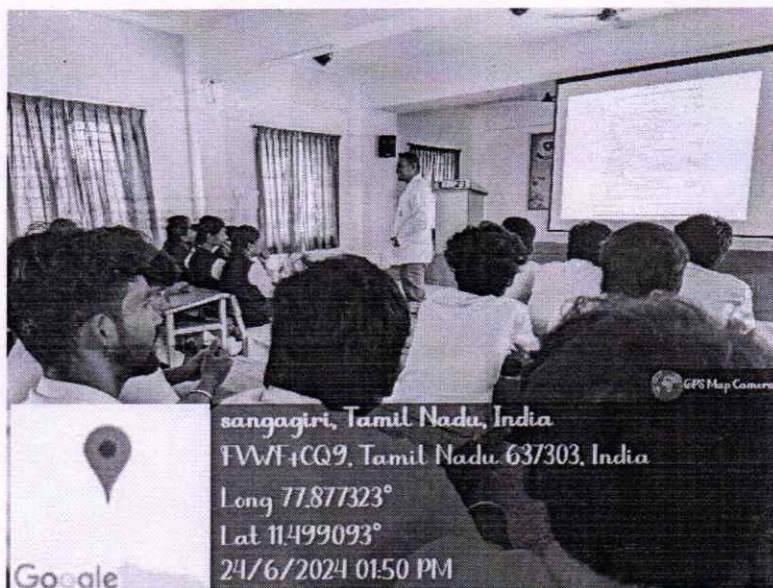
ADVANCED THERMODYNAMICS AND COMBUSTION

NAME OF ADD ON COURSE : ADVANCED THERMODYNAMICS AND COMBUSTION

COURSE INSTRUCTORS : Dr.G.SEKAR

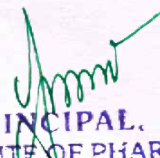
YEAR OFFERED : 2nd SEM B.PHARM

COURSE DURATION : 36 HRS



Add-on course regarding the Topic Application of Advanced Thermodynamics And Combustion 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 Combustion in the fields of pharmaceutical sciences




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