



SS INSTITUTE OF PHARMACY

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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/2021/006

Date: 14/02/2022

From

Department of Pharmacognosy,
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 **28/02/2022 to 08/03/2022**. We wish to conduct add on course on the title “**Natural Gas Engineering**”. 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: 14/02/2022

CIRCULAR

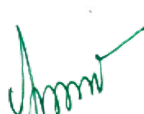
This is to inform that will B.PHARM students have the schedule of following value - added course to be conducted by our SS Institute of Pharmacy and it as mentioned below.

| COURSE NAME | SCHEDULE | DURATION | VENUE | RESOURCE PERSON |
|-------------------------|--------------------------------|----------|--------------|-----------------|
| NATURAL GAS ENGINEERING | 28/02/2022 to 08/03/2022 | 40 HOURS | SEMINAR HALL | B. ANITHA |

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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SS INSTITUTE OF PHARMACY

DEPARTMENT OF
PHARMACOGNOSY

COURSE TITLES
NATURAL GAS
ENGINEERING

RESOURCE PERSON
B.ANITHA M.PHARM
Assistant Professor

TOPICS

- Gas reservoir characterization
- Natural gas pricing and trading
- Sulfur recovery

Contact



+919443026056



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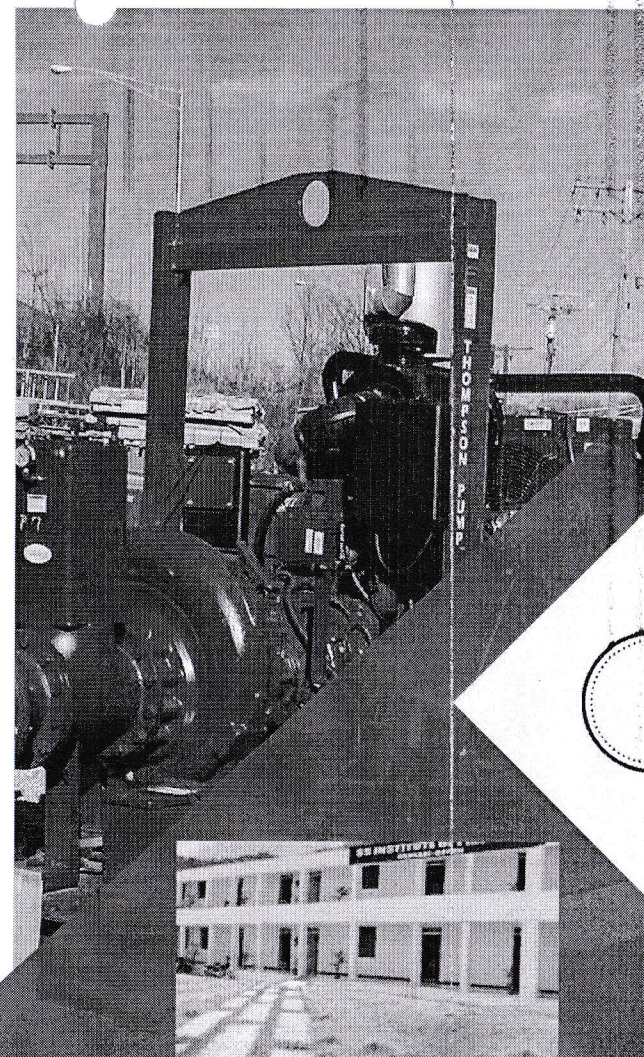


NH 47, Kuppanur Post,
Salem – Coimbatore
High Way,
Manjakalpatti,
Sankari Taluk,
Salem District, Tamil
Nadu – 637 301



PRINCIPAL
SS INSTITUTE OF PHARMACY
KUPPANUR (PO), SANKARI TALUK
SALEM DISTRICT, TAMIL NADU - 637301

OOOO



VENUE: SSIP Seminar Hall

DATE: 28/02/2022 TO 08/03/2022

TIME: 10 AM TO 1 PM



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SYLLABUS

Natural Gas Engineering

| Sl. No. | Topic | DATE |
|---------|--|---------------------------|
| 1 | Fundamentals and Properties <ul style="list-style-type: none">- Natural Gas Properties and Characterization- Natural Gas Measurement and Metering | 28/02/2022- 01/03/2022 |
| 2 | Processing and Treatment <ul style="list-style-type: none">- Natural Gas Processing and Treatment- Gas Sweetening and Acid Gas Removal | 02/03/2022 |
| 3 | Transportation and Storage <ul style="list-style-type: none">- Gas Transportation and Pipeline Engineering- Gas Storage and Distribution Systems | 03/03/2022 |
| 4 | Plant Design and Operations <ul style="list-style-type: none">- Gas Processing Plant Design and Operations- Natural Gas Dehydration and Hydrate Prevention | 04/03/2022- 05/03/2022 |
| 5 | Specialized Topics <ul style="list-style-type: none">- Sulfur Recovery and Tail Gas Treatment- Offshore Natural Gas Production and Processing | 07/03/2022- 08/03/2022 |

RESOURCE PERSON: B. Anitha

TOTAL HOURS: 40Hrs



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**ADD ON / CERTIFICATE VALUE ADDED PROGRAMS ACADEMIC
YEAR 2021-2022**



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ACADAMIC YEAR 2021-2022

| S.NO | NAME OF ADD ON CERTIFICATES PROGRAMS | COURSE CODE | NO OF STUDEN ENROLLED | TYPE OF ADD ON CERTIFICATE PROGRAMS |
|------|--|----------------|--------------------------|---|
| 1. | Introduction to health apps | 21IHA01 | 56 | Self-framed course |
| 2. | Introduction to human- Computer interactions | 21IHCI02 | 50 | Self-framed course |
| 3. | Advanced methods in polymer techniques | 21AMPT03 | 56 | Self-framed course |
| 4. | Neuroscience of decision making | 21NDM04 | 60 | Self-framed course |
| 5. | Nanomedicine regulatory aspects | 21NRA05 | 53 | Self-framed course |
| 6. | Natural gas engineering | 22NGE06 | 56 | Self-framed course |
| 7. | AI in healthcare opportunities and challenges | 22AHOC07 | 59 | Self-framed course |
| 8. | Advanced aquaculture technology method | 22AATM08 | 115 | Self-framed course |



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ACADAMIC YEAR 2020-2021

ADD ON COURSE – ENROLLMENT LIST

NAME OF ADD ON COURSE : NATURAL GAS ENGINEERING

COURSE INSTRUCTORS : ANITHA.B

YEAR OFFERED : IInd B.PHARM IIIrd SEM

COURSE DURATION : 40HRS

| S.NO | NAME OF THE STUDENT | REGISTER NO | COURSE |
|------|-----------------------|--------------|-------------------------|
| 1. | ABINAYA.M | 560020523501 | 2 nd B.Pharm |
| 2. | ABISHEK.J | 560020523502 | 2 nd B.Pharm |
| 3. | AMOKA.V | 560020523503 | 2 nd B.Pharm |
| 4. | ANBUSELVAN.V | 560020523504 | 2 nd B.Pharm |
| 5. | ANBUSELVI.S | 560020523505 | 2 nd B.Pharm |
| 6. | ANITHA.L | 560020523506 | 2 nd B.Pharm |
| 7. | ARAVIND.R | 560020523507 | 2 nd B.Pharm |
| 8. | ARCHANA.M | 560020523508 | 2 nd B.Pharm |
| 9. | ARUN VENKATESHWARAN.S | 560020523509 | 2 nd B.Pharm |
| 10. | ARUN.A | 560020523510 | 2 nd B.Pharm |
| 11. | ASWIN.M | 560020523511 | 2 nd B.Pharm |
| 12. | ATCHAYA.K | 560020523512 | 2 nd B.Pharm |
| 13. | BANU.S | 560020523513 | 2 nd B.Pharm |
| 14. | BAVITHRA.B | 560020523514 | 2 nd B.Pharm |
| 15. | BHARATHI RAJA.S | 560020523515 | 2 nd B.Pharm |
| 16. | BHARATH KUMAR.R | 560020523516 | 2 nd B.Pharm |
| 17. | DEEPASRI.P | 560020523517 | 2 nd B.Pharm |
| 18. | DINESH.S | 560020523518 | 2 nd B.Pharm |
| 19. | GOPIKRISHNAN.V | 560020523519 | 2 nd B.Pharm |
| 20. | GOWSALYA.V | 560020523520 | 2 nd B.Pharm |
| 21. | GULBAHAR.G | 560020523521 | 2 nd B.Pharm |
| 22. | HEMADHARAN.V | 560020523522 | 2 nd B.Pharm |
| 23. | ISHWARYA.S | 560020523523 | 2 nd B.Pharm |
| 24. | JEYASURYA.V | 560020523524 | 2 nd B.Pharm |
| 25. | KESAVAMUGIL.SH.M | 560020523525 | 2 nd B.Pharm |



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| | | | |
|-----|---------------------|--------------|-------------------------|
| 26. | MUTHU.J | 560020523526 | 2 nd B.Pharm |
| 27. | NAGAMUGILAN.P | 560020523527 | 2 nd B.Pharm |
| 28. | NAGESHWARI.K | 560020523528 | 2 nd B.Pharm |
| 29. | NARESH KUMAR.M | 560020523529 | 2 nd B.Pharm |
| 30. | NARMATHA.M | 560020523530 | 2 nd B.Pharm |
| 31. | PAPITHA .V | 560020523531 | 2 nd B.Pharm |
| 32. | PRAGATHI .P | 560020523532 | 2 nd B.Pharm |
| 33. | PRASANTH .M | 560020523533 | 2 nd B.Pharm |
| 34. | PRIYADARSHINI .V | 560020523534 | 2 nd B.Pharm |
| 35. | RAJALAKSHMI .N | 560020523535 | 2 nd B.Pharm |
| 36. | RAJARAJAN .M | 560020523536 | 2 nd B.Pharm |
| 37. | SATHISHKUMAR .J | 560020523537 | 2 nd B.Pharm |
| 38. | SHIRLEY ELIZABETH.I | 560020523538 | 2 nd B.Pharm |
| 39. | SIVA S.V | 560020523539 | 2 nd B.Pharm |
| 40. | SIVAPRAKASH .V | 560020523540 | 2 nd B.Pharm |
| 41. | SUDHA D.G | 560020523541 | 2 nd B.Pharm |
| 42. | SUNDARAKANNAN .D | 560020523542 | 2 nd B.Pharm |
| 43. | SURIYA .G | 560020523543 | 2 nd B.Pharm |
| 44. | SWATHY .M | 560020523544 | 2 nd B.Pharm |
| 45. | SYED YASIN S.M | 560020523545 | 2 nd B.Pharm |
| 46. | TAMILARASAN .A | 560020523546 | 2 nd B.Pharm |
| 47. | THAMIZHARASAN .N | 560020523547 | 2 nd B.Pharm |
| 48. | THILAGAVATHI .M | 560020523548 | 2 nd B.Pharm |
| 49. | THIRUMURUGAN .R | 560020523549 | 2 nd B.Pharm |
| 50. | UMAVATHI .P | 560020523550 | 2 nd B.Pharm |
| 51. | VALLARASU.D | 560020523551 | 2 nd B.Pharm |
| 52. | VASANTHRAJ .S | 560020523552 | 2 nd B.Pharm |
| 53. | VINOTH SANJAY.T | 560020523553 | 2 nd B.Pharm |
| 54. | VINOTH .S | 560020523554 | 2 nd B.Pharm |
| 55. | VISHWA .M | 560020523555 | 2 nd B.Pharm |
| 56. | VISHWANATHAN .V | 560020523556 | 2 nd B.Pharm |



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ADD ON COURSE – ATTENDANCE LIST

NAME OF ADD ON COURSE : NATURAL GAS ENGINEERING

COURSE INSTRUCTORS : ANITHA.B

YEAR OFFERED : IInd B.PHARM IIIrd SEM

COURSE DURATION : 40 HRS

| S.NO | NAME OF THE STUDENT | REGISTER NO | ATTENDANCE | | | | | | | |
|------|-----------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | 28/2/22 | 1/3/22 | 2/3/22 | 3/3/22 | 4/3/22 | 5/3/22 | 7/3/22 | 8/3/22 |
| 1. | ABINAYA.M | 560020523501 | M.Abinaya | M.Abinaya | M.Abinaya | A | M.Abinaya | M.Abinaya | M.Abinaya | M.Abinaya |
| 2. | ABISHEK.J | 560020523502 | R | R | R | R | R | R | R | R |
| 3. | AMOKA.V | 560020523503 | V.Amoka | V.Amoka | V.Amoka | V.Amoka | V.Amoka | V.Amoka | V.Amoka | V.Amoka |
| 4. | ANBUSELVAN.V | 560020523504 | A | A | A | A | A | A | A | A |
| 5. | ANBUSELVIS | 560020523505 | S.Anis | S.Anis | S.Anis | S.Anis | S.Anis | S.Anis | S.Anis | S.Anis |
| 6. | ANITHA.L | 560020523506 | Anitha | Anitha | Anitha | Anitha | Anitha | Anitha | Anitha | Anitha |
| 7. | ARAVIND.R | 560020523507 | R.Aravind | R.Aravind | R.Aravind | R.Aravind | R.Aravind | R.Aravind | R.Aravind | R.Aravind |
| 8. | ARCHANA.M | 560020523508 | M.Archana | M.Archana | M.Archana | M.Archana | M.Archana | M.Archana | M.Archana | M.Archana |
| 9. | ARUN VENKATESHWARAN.S | 560020523509 | S.Arun | S.Arun | S.Arun | S.Arun | S.Arun | S.Arun | S.Arun | S.Arun |
| 10. | ARUN.A | 560020523510 | A.Arun | A.Arun | A.Arun | A.Arun | A.Arun | A.Arun | A.Arun | A.Arun |
| 11. | ASWIN.M | 560020523511 | M.Aswin | M.Aswin | M.Aswin | M.Aswin | M.Aswin | M.Aswin | M.Aswin | M.Aswin |
| 12. | ATCHAYA.K | 560020523512 | K.Achaya | K.Achaya | K.Achaya | K.Achaya | K.Achaya | K.Achaya | K.Achaya | K.Achaya |
| 13. | BANU.S | 560020523513 | B.Banu | B.Banu | B.Banu | B.Banu | B.Banu | B.Banu | B.Banu | B.Banu |
| 14. | BAVITHRA.B | 560020523514 | B.Bavithra | B.Bavithra | B.Bavithra | B.Bavithra | B.Bavithra | B.Bavithra | B.Bavithra | B.Bavithra |
| 15. | BHARATHI RAJA.S | 560020523515 | S.Bharathi | S.Bharathi | S.Bharathi | S.Bharathi | S.Bharathi | S.Bharathi | S.Bharathi | S.Bharathi |
| 16. | BHARATH KUMAR.R | 560020523516 | R.Bharath | R.Bharath | R.Bharath | R.Bharath | R.Bharath | R.Bharath | R.Bharath | R.Bharath |
| 17. | DEEPASRI.P | 560020523517 | P.Deepasri | P.Deepasri | P.Deepasri | P.Deepasri | P.Deepasri | P.Deepasri | P.Deepasri | P.Deepasri |
| 18. | DINESH.S | 560020523518 | S.Dinesh | S.Dinesh | S.Dinesh | S.Dinesh | S.Dinesh | S.Dinesh | S.Dinesh | S.Dinesh |



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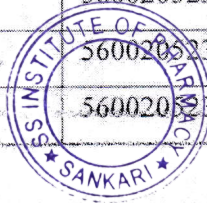


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| | | | | | | | | | | | | |
|-----|---------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 19. | GOPIKRISHNAN.V | 560020523519 | G.K. | G.K. | G.K. | G.K. | G.K. | G.K. | G.K. | G.K. | G.K. | G.K. |
| 20. | GOWSALYA.V | 560020523520 | V.G. | V.G. | V.G. | V.G. | V.G. | V.G. | V.G. | V.G. | V.G. | V.G. |
| 21. | GULBAHAR.G | 560020523521 | G. | G. | G. | G. | G. | G. | G. | G. | G. | G. |
| 22. | HEMADHARAN.V | 560020523522 | H.V. | H.V. | H.V. | H.V. | H.V. | H.V. | H.V. | H.V. | H.V. | H.V. |
| 23. | ISHWARYA.S | 560020523523 | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. | I.S. |
| 24. | JEYASURYA.V | 560020523524 | J.V. | J.V. | J.V. | J.V. | J.V. | J.V. | J.V. | J.V. | J.V. | J.V. |
| 25. | KESAVAMUGILESH.M | 560020523525 | K.M. | K.M. | K.M. | K.M. | K.M. | K.M. | K.M. | K.M. | K.M. | K.M. |
| 26. | MUTHU.J | 560020523526 | M.J. | M.J. | M.J. | M.J. | M.J. | M.J. | M.J. | M.J. | M.J. | M.J. |
| 27. | NAGAMUGILAN.P | 560020523527 | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. | N.P. |
| 28. | NAGESHWAR.LK | 560020523528 | N.LK. | N.LK. | N.LK. | N.LK. | N.LK. | N.LK. | N.LK. | N.LK. | N.LK. | N.LK. |
| 29. | NARESH KUMAR.M | 560020523529 | N.M. | N.M. | N.M. | N.M. | N.M. | N.M. | N.M. | N.M. | N.M. | N.M. |
| 30. | NARMATHA.M | 560020523530 | N.M. | N.M. | N.M. | N.M. | N.M. | N.M. | N.M. | N.M. | N.M. | N.M. |
| 31. | PAPITHA .V | 560020523531 | P.V. | P.V. | P.V. | P.V. | P.V. | P.V. | P.V. | P.V. | P.V. | P.V. |
| 32. | PRAGATHI .P | 560020523532 | P.P. | P.P. | P.P. | P.P. | P.P. | P.P. | P.P. | P.P. | P.P. | P.P. |
| 33. | PRASANTH .M | 560020523533 | P.M. | P.M. | P.M. | P.M. | P.M. | P.M. | P.M. | P.M. | P.M. | P.M. |
| 34. | PRIYADARSHINI .V | 560020523534 | P.V. | P.V. | P.V. | P.V. | P.V. | P.V. | P.V. | P.V. | P.V. | P.V. |
| 35. | RAJALAKSHMI .N | 560020523535 | R.N. | R.N. | R.N. | R.N. | R.N. | R.N. | R.N. | R.N. | R.N. | R.N. |
| 36. | RAJARAJAN .M | 560020523536 | R.M. | R.M. | R.M. | R.M. | R.M. | R.M. | R.M. | R.M. | R.M. | R.M. |
| 37. | SATHISHKUMAR .J | 560020523537 | S.J. | S.J. | S.J. | S.J. | S.J. | S.J. | S.J. | S.J. | S.J. | S.J. |
| 38. | SHIRLEY ELIZABETH.I | 560020523538 | S.I. | S.I. | S.I. | S.I. | S.I. | S.I. | S.I. | S.I. | S.I. | S.I. |
| 39. | SIVA S.V | 560020523539 | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. |
| 40. | SIVAPRAKASH .V | 560020523540 | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. |
| 41. | SUDHA D.G | 560020523541 | S.D. | S.D. | S.D. | S.D. | S.D. | S.D. | S.D. | S.D. | S.D. | S.D. |
| 42. | SUNDARAKANNAN .D | 560020523542 | S.D. | S.D. | S.D. | S.D. | S.D. | S.D. | S.D. | S.D. | S.D. | S.D. |
| 43. | SURIYA .G | 560020523543 | S.G. | S.G. | S.G. | S.G. | S.G. | S.G. | S.G. | S.G. | S.G. | S.G. |
| 44. | SWATHY .M | 560020523544 | S.M. | S.M. | S.M. | S.M. | S.M. | S.M. | S.M. | S.M. | S.M. | S.M. |
| 45. | SYED YASIN S.M | 560020523545 | S.M. | S.M. | S.M. | S.M. | S.M. | S.M. | S.M. | S.M. | S.M. | S.M. |
| 46. | TAMILARASAN .A | 560020523546 | T.A. | T.A. | T.A. | T.A. | T.A. | T.A. | T.A. | T.A. | T.A. | T.A. |



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| | | | | | | | | | | |
|-----|------------------|--------------|------|------|------|------|------|------|------|------|
| 47. | THAMIZHARASAN .N | 560020523547 | N.T. | N.T. | N.T. | N.T. | A | N.T. | N.T. | N.T. |
| 48. | THILAGAVATHI .M | 560020523548 | M.T. | M.T. | M.T. | M.T. | M.T. | M.T. | M.T. | M.T. |
| 49. | THIRUMURUGAN .R | 560020523549 | R.D. | R.D. | R.D. | R.D. | R.D. | R.D. | R.D. | R.D. |
| 50. | UMAVATHI .P | 560020523550 | U.P. | U.P. | U.P. | U.P. | U.P. | U.P. | U.P. | U.P. |
| 51. | VALLARASU.D | 560020523551 | V.D. | V.D. | V.D. | V.D. | V.D. | V.D. | V.D. | V.D. |
| 2. | VASANTHRAJ .S | 560020523552 | V.S. | V.S. | V.S. | V.S. | V.S. | V.S. | V.S. | V.S. |
| 53. | VINOTH SANJAY.T | 560020523553 | V.T. | V.T. | V.T. | V.T. | V.T. | V.T. | V.T. | V.T. |
| 54. | VINOTH .S | 560020523554 | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. | S.V. |
| 55. | VISHWA .M | 560020523555 | V.M. | V.M. | V.M. | V.M. | V.M. | V.M. | V.M. | V.M. |
| 56. | VISHWANATHAN .V | 560020523556 | V.V. | V.V. | V.V. | V.V. | V.V. | V.V. | V.V. | V.V. |



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5

| ADD ON COURSE | NATURAL GAS ENGINEERING |
|----------------------------------|--------------------------|
| DEPARTMENT | PHARMACOGNOSY |
| ACADEMIC YEAR | 2021-2022 |
| DATE | 28/02/2022 to 08/03/2022 |
| VENUE | SEMINAR HALL |
| NAME: <i>Shirley Elizabeth I</i> | COURSE: <i>II - Sem</i> |

ANSWER ALL THE QUESTIONS:

DATE: 08/03/2022

MULTIPLE CHOICE QUESTIONS

MARKS:15

1. What is the primary vaa vaa component of natural gas?

- a) Ethane
- b) Propane
- ☒ c) Methane
- d) Butane

2. Which of the following processes is used to remove impurities from natural gas?

- a) Cracking
- b) Fractionation
- ☒ c) Sweetening
- d) Distillation

3. In natural gas processing, what is the purpose of dehydration?

- a) To remove sulfur compounds
- ☒ b) To remove water vapor
- c) To increase the calorific value
- d) To reduce carbon dioxide content

4. What is the main purpose of gas compression in natural gas engineering?

- a) To increase the gas volume
- b) To reduce gas temperature
- ☒ c) To increase pressure for transportation
- d) To convert gas into liquid

5. Which of the following methods is commonly used for transporting natural gas over long distances?

- a) Trucks
- b) Railroads
- ☒ c) Pipelines
- d) Air freight



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6. In the context of natural gas reservoirs, what does the term "porosity" refer to?
- a) The ability of the rock to conduct electricity
 - ☒ b) The percentage of void space in the rock
 - c) The density of the rock
 - d) The chemical composition of the rock
7. What is "hydraulic fracturing" in natural gas production?
- a) A method to cool down the gas
 - b) A technique to reduce gas pressure
 - ☒ c) A process to create fractures in rock formations to release gas
 - d) A way to filter impurities from gas
8. Which of the following is a byproduct often extracted during natural gas processing?
- a) Hydrogen sulfide (H₂S)
 - ☒ b) Helium
 - c) Ethanol
 - d) Diesel
9. In natural gas engineering, what is the significance of the "Wobbe Index"?
- a) It measures the sulfur content in natural gas.
 - ☒ b) It indicates the quality of natural gas based on its energy output.
 - c) It measures the purity of natural gas.
 - d) It determines the viscosity of natural gas
10. What is the primary purpose of gas storage facilities in natural gas engineering?
- a) To liquefy natural gas
 - ☒ b) To balance supply and demand fluctuations
 - c) To reduce the calorific value of gas
 - d) To convert gas into other hydrocarbons
11. Which of the following processes is used to separate natural gas liquids (NGLs) from natural gas?
- a) Absorption
 - ☒ b) Cryogenic expansion
 - c) Adsorption
 - d) Distillation
12. What does "BTU" stand for in the context of natural gas?
- ☒ a) British Thermal Unit
 - b) Base Thermal Unit
 - c) Basic Transport Unit
 - d) Bulk Transmission Unit



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13. In natural gas production, what is "acid gas"?
- a) Gas with a high oxygen content
 - ☒ b) Natural gas that contains sulfur compounds like H₂S and CO₂
 - c) Natural gas with a low methane content
 - d) Gas that is highly reactive
14. What is the purpose of a gas processing plant in the natural gas supply chain?
- a) To explore new gas reserves
 - ☒ b) To remove contaminants and separate natural gas liquids
 - c) To compress gas for pipeline transport
 - d) To store gas for future use
15. What is the environmental concern associated with the flaring of natural gas?
- a) It contributes to ozone depletion.
 - b) It increases water pollution.
 - ☒ c) It results in the release of greenhouse gases.
 - d) It causes soil erosion.




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| ADD ON COURSE | NATURAL GAS ENGINEERING |
|---------------|--------------------------|
| DEPARTMENT | PHARMACOGNOSY |
| ACADEMIC YEAR | 2021-2022 |
| DATE | 28/02/2022 to 08/03/2022 |

ANSWER KEY:

DATE: 08/03/2022

MULTIPLE CHOICE QUESTIONS

MARKS:15

- What is the primary vaa vaa component of natural gas?
 - Ethane
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 - Methane**
 - Butane
- Which of the following processes is used to remove impurities from natural gas?
 - Cracking
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- In natural gas processing, what is the purpose of dehydration?
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 - To remove water vapor**
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- What is the main purpose of gas compression in natural gas engineering?
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- Which of the following methods is commonly used for transporting natural gas over long distances?
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 - Air freight



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-
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 - d) Bulk Transmission Unit



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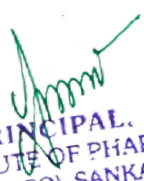
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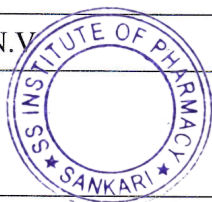
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ADD ON COURSE – MARK LIST

NAME OF ADD ON COURSE : NATURAL GAS ENGINEERING
COURSE INSTRUCTORS : ANITHA.B
YEAR OFFERED : IInd B. PHARM IIIrd SEM
COURSE DURATION : 40 HRS

| S.NO | NAME OF STUDENT | REGISTER NO | MARKS (15) | PERCENTAGE (%) |
|------|-----------------------|--------------|---------------|-------------------|
| 1. | ABINAYA.M | 560020523501 | 12 | 80% |
| 2. | ABISHEK.J | 560020523502 | 15 | 100% |
| 3. | AMOKA.V | 560020523503 | 15 | 100% |
| 4. | ANBUSELVAN.V | 560020523504 | 13 | 86% |
| 5. | ANBUSELVI.S | 560020523505 | 13 | 86% |
| 6. | ANITHA.L | 560020523506 | 14 | 93% |
| 7. | ARAVIND.R | 560020523507 | 14 | 93% |
| 8. | ARCHANA.M | 560020523508 | 12 | 80% |
| 9. | ARUN VENKATESHWARAN.S | 560020523509 | 12 | 80% |
| 10. | ARUN.A | 560020523510 | 12 | 80% |
| 11. | ASWIN.M | 560020523511 | 15 | 100% |
| 12. | ATCHAYA.K | 560020523512 | 12 | 80% |
| 13. | BANU.S | 560020523513 | 12 | 80% |
| 14. | BAVITHRA.B | 560020523514 | 15 | 100% |
| 15. | BHARATHI RAJA.S | 560020523515 | 13 | 86% |
| 16. | BHARATH KUMAR.R | 560020523516 | 13 | 86% |
| 17. | DEEPASRI.P | 560020523517 | 14 | 93% |
| 18. | DINESH.S | 560020523518 | 12 | 80% |
| 19. | GOPIKRISHNAN.V | 560020523519 | 15 | 100% |



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| | | | | |
|-----|---------------------|--------------|----|------|
| 20. | GOWSALYA.V | 560020523520 | 14 | 93% |
| 21. | GULBAHAR.G | 560020523521 | 13 | 86% |
| 22. | HEMADHARAN.V | 560020523522 | 12 | 80% |
| 23. | ISHWARYA.S | 560020523523 | 12 | 80% |
| 24. | JEYASURYA.V | 560020523524 | 14 | 93% |
| 25. | KESAVAMUGILESH.M | 560020523525 | 13 | 86% |
| 26. | MUTHU.J | 560020523526 | 13 | 86% |
| 27. | NAGAMUGILAN.P | 560020523527 | 14 | 93% |
| 28. | NAGESHWARI.K | 560020523528 | 13 | 86% |
| 29. | NARESH KUMAR.M | 560020523529 | 12 | 80% |
| 30. | NARMATHA.M | 560020523530 | 15 | 100% |
| 31. | PAPITHA .V | 560020523531 | 13 | 86% |
| 32. | PRAGATHI .P | 560020523532 | 13 | 86% |
| 33. | PRASANTH .M | 560020523533 | 14 | 93% |
| 34. | PRIYADARSHINI .V | 560020523534 | 13 | 86% |
| 35. | RAJALAKSHMI .N | 560020523535 | 12 | 80% |
| 36. | RAJARAJAN .M | 560020523536 | 13 | 86% |
| 37. | SATHISHKUMAR .J | 560020523537 | 15 | 100% |
| 38. | SHIRLEY ELIZABETH.I | 560020523538 | 15 | 100% |
| 39. | SIVA S.V | 560020523539 | 12 | 80% |
| 40. | SIVAPRAKASH .V | 560020523540 | 15 | 100% |
| 41. | SUDHA D.G | 560020523541 | 13 | 86% |
| 42. | SUNDARAKANNAN .D | 560020523542 | 12 | 80% |
| 43. | SURIYA .G | 560020523543 | 15 | 100% |
| 44. | SWATHY .M | 560020523544 | 13 | 86% |
| 45. | SYED YASIN S.M | 560020523545 | 13 | 86% |
| 46. | TAMILARASAN .A | 560020523546 | 14 | 93% |
| 47. | THAMIZHARASAN .N | 560020523547 | 13 | 86% |

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| | | | | |
|-----|-----------------|--------------|----|------|
| 48. | THILAGAVATHI .M | 560020523548 | 12 | 80% |
| 49. | THIRUMURUGAN .R | 560020523549 | 12 | 80% |
| 50. | UMAVATHI .P | 560020523550 | 12 | 80% |
| 51. | VALLARASU.D | 560020523551 | 15 | 100% |
| 52. | VASANTHRAJ .S | 560020523552 | 12 | 80% |
| 53. | VINOTH SANJAY.T | 560020523553 | 13 | 86% |
| 54. | VINOTH .S | 560020523554 | 13 | 86% |
| 55. | VISHWA .M | 560020523555 | 14 | 93% |
| 56. | VISHWANATHAN .V | 560020523556 | 13 | 86% |

TOTAL NUMBER OF STUDENT : 56

TOTAL NUMBER OF PERCENTAGE : 88.3%



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ADD ON COURSE : SUMMARY REPORT

Course code and Name : 22ACFD02/ Applied Computational Fluid Dynamics

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

Course Duration : 36 Hours

Year Offered : 2nd Sem B.Pharm

Course Instructors : M.Gomathi.,M.Pharm.

Course Outcomes :

- Understand CFD Principles: Explain fundamental CFD concepts, including governing equations and numerical methods.
- Model Setup and Solution: Set up, solve, and validate CFD models using industry-standard software.
- Analyze Results: Interpret CFD results to understand flow patterns, pressure distributions, and turbulence.
- Apply Advanced Techniques: Implement advanced CFD techniques like turbulence modeling and multiphase flows.

Course Type : Add on Course

Assessment Mode:

Total Duration : 36 Hours

Number of Participants : 56

Scheme of Exam : MCQ type, offline Mode

Date of Exam : 21/06/2022

Course Coordinator



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CERTIFICATE OF PARTICIPATION



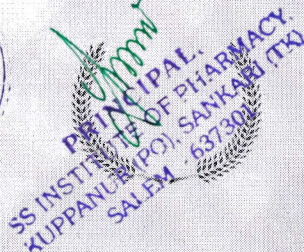
ONE DAY WORKSHOP
Organized by
Department of
PHARMACOGNOSY

.....V. AMDKA.....

HAS APPRICATED FOR HIS / HER PARTICIPATION
IN ONE DAY SEMINAR ON
NATURAL GAS ENGINEERING

.....28/02/2022 TO 08/03/2022.....


COORDINATOR




PRINCIPAL



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CERTIFICATE OF PARTICIPATION



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S. TSHWARYA

HAS APPRICATED FOR HIS / HER PARTICIPATION
IN ONE DAY SEMINAR ON
NATURAL GAS ENGINEERING

28/02/2022 TO 08/03/2022

[Signature]
COORDINATOR



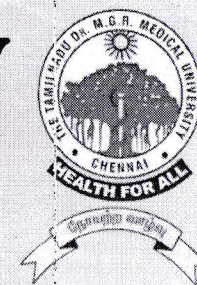
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CERTIFICATE OF PARTICIPATION



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N. RAJA LAKSHMI

HAS APPRICATED FOR HIS / HER PARTICIPATION
IN ONE DAY SEMINAR ON
NATURAL GAS ENGINEERING

28/02/2022 TO 08/03/2022

COORDINATOR



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STUDENT FEEDBACK FORM

STUDENT NAME: V. Viswanathan

DATE: 8/3/2022

YEAR/COURSE: B. Pharm - II sem

NAME OF THE ADD ON COURSE: Natural gas engineering

COURSE CODE: 21NGE06

DURATION: 40 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 | | ✓ | | |



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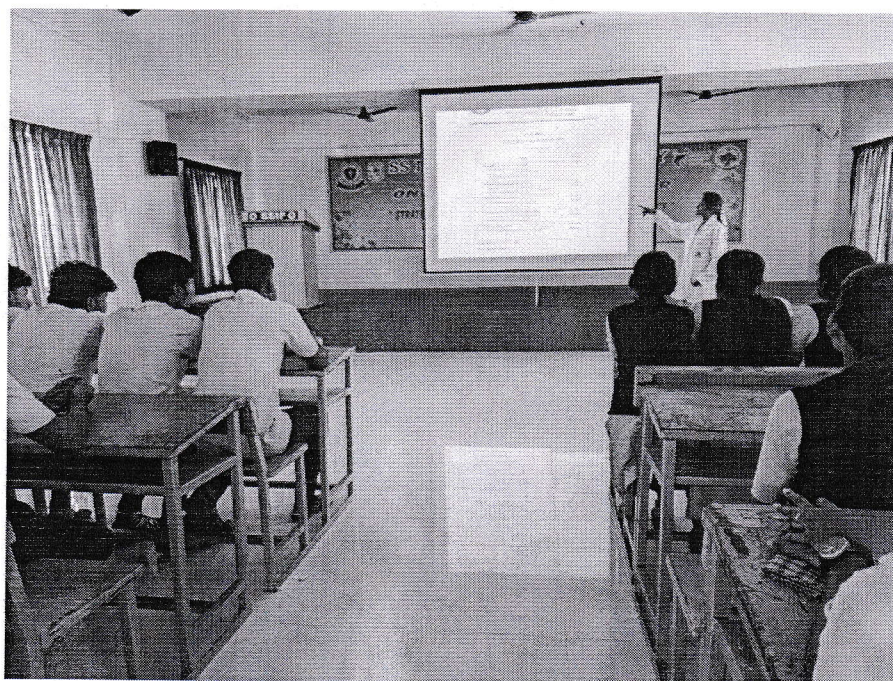
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PHOTOGRAPH

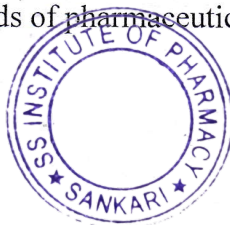
DATE : 03/03/23

NATURAL GAS ENGINEERING

NAME OF ADD ON COURSE : NATURAL GAS ENGINEERING
COURSE INSTRUCTORS : ANITHA.B
YEAR OFFERED : IInd B.PHARM IIIrd SEM
COURSE DURATION : 40HRS



Add-on course regarding the Topic Application Natural Gas Engineering conducted 12/11/2021, the speech delivered By **B.Anitha.,M.Pharm** which was an interactive session and students could able to understand the Application of Natural Gas Engineering in the fields of pharmaceutical sciences



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