

Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL INDRA GANESAN COLLEGE OF ENGINEERING





DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 EVEN / ODD SEMESTER

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs,SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfullycompleted during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed onlinecourses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the lastfive years

| VAC Title: | Mechanical Electrical and Plumbing Methods | | | | | | | | | | | |
|--|--|------|------------|--------|------|------------|--|------------------|----------|--|--|--|
| Resource Person: Mr.Abhu &Mr.David Trainer UNIQ MEP Trichy | | | | | | | | | | | | |
| Date of cond | uct fro | m: | 05.12.2022 | | To: | 09.12.2022 | | Duration: | 30 Hours | | | |
| Organized D | epartm | ent: | MECHAN | ICAL : | ENGI | NEERING | | | | | | |
| Participant Year: Mech IV,III,II Year ODD No. of Students Registered: 45 | | | | | | | | | | | | |
| Venue: Mechanical Seminar Hall | | | | | | | | | | | | |

Table of Content

| S. No | Document | Page No |
|-------|------------------------------------|---------|
| 1. | VAC Circular | 3-3 |
| 2. | VAC Schedule | 4-4 |
| 3. | List of the Students Participation | 5-7 |
| 4. | VAC Attendance Sheet | 8-11 |
| 5. | VAC Question Paper | 12-15 |
| 6. | VAC Answer Key | 16-16 |
| 7. | VAC Test Answer Sheet-Sample | 17-20 |
| 8. | VAC Mark Statement | 21-25 |
| 9. | VAC Report | 26-27 |
| 10. | Certificate | 28-31 |



COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AfCTE, NewDelhi & Affiliated to Anna University, Chemnal NAAC Accredited, 2(F) Status Institution by UGC



Department of Mechanical Engineering

Academic Year 2022-2023 -Odd Semester

Date: 03.12.2022

DEPARTMENT CIRCULAR

Department of Mechanical Engineering and IQAC of IGCE in Association with UNIQ-MEP, Trichy is going to organize Value added course for all III, IV Year students on "Mechanical electrical and plumbing methods" From 05.12.2022 to 09.12.2022., certificates will be issued to be eligible participants at the end of the course. This training is to be provided in our college campus

| | 1. Mr.Abhu |
|-------------------------|-------------------------|
| | Manager, |
| | UNIQ-MEP, |
| Resource Person Details | Trichy |
| | 2.Mr.David Ubaharasamy |
| | Executive, |
| | UNIQ-MEP, |
| | Trichy |
| Venue | Mechanical Seminar Hall |

PRINCIPAL

Ce:

- · Principal Table
- IQAC Co-Ordinator
- Class In charges II,III & IV-Year
- II,III & IV-Year MECH Students
- Office File
- · Notice Board

Dr. G. Balakrishnan, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING





Value Added Course

"Mechanical Electrical and Plumbing Methods"

SYLLABUS

| s.no | TOPIC COVERED | DURATION (in hours) | DATE |
|------|--|------------------------|------------|
| 1 | Introduction of Mechanical tools | 3 | 05.12.2022 |
| 2 | Mechanical equipments and categories of tools | 3 | 05.12.2022 |
| 3 | Mechanical Machineries. | 3 | 06.12.2022 |
| 4 | Heat load calculation | 3 | 06.12.2022 |
| 5 | Sheet metals & foundry tools | 3 | 07.12.2022 |
| 6 | MEP software skills | 3 | 07.12.2022 |
| 7 | Electrical basis and electrical accessories | 3 | 08.12.2022 |
| 8 | Lighting circuit system design | 3 | 08.12.2022 |
| 9 | Load calculation and distribution ,cables section & Installation | 3 | 09.12.2022 |
| 10 | Introduction of plumbing system | 3 | 09.12.2022 |
| 11 | Exam | 1 | 09.12.2022 |
| | Total Hours(Excluding Exam) | 30 | |

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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VAC Coordinator

HOMECH





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Value Added Course

"Mechanical Electrical and Plumbing Methods"

STUDENTS PARTICIPATION LIST

| S.No | Reg.No | Students Name | Year/Branch |
|------|--------------|--------------------------|-------------|
| 1 | 811219114001 | Aathilingam V | IV/MECH |
| 2 | 811219114002 | Abimanyu C | IV/MECH |
| 3 | 811219114003 | Ajay S | IV/MECH |
| 4 | 811219114004 | Christy Lourthu Samy A | IV/MECH |
| 5 | 811219114006 | Periyasamy P | IV/MECH |
| 6 | 811219114008 | Saravana Kumar V | IV/MECH |
| 7 | 811219114010 | Siriyac Selva A | IV/MECH |
| 8 | 811219114011 | Suriyaganesh M | IV/MECH |
| 9 | 811219114012 | Vaithiyalingam M | IV/MECH |
| 10 | 811219114013 | Vikash R | IV/MECH |
| 11 | 811219114301 | Hariharan R | IV/MECH |
| 12 | 811219114302 | Mohanraj G | IV/MECH |
| 13 | 811219114303 | Sivash K | IV/MECH |
| 14 | 811219114701 | Gokul R | IV/MECH |
| 15 | 811219114702 | Madhan Murugan S | IV/MECH |
| 16 | 811219114703 | Muthukaruppan M | IV/MECH |
| 17 | 811219114704 | Inigo Rithish P | IV/MECH |
| 18 | 811220114001 | Abinesh As Dr. G. Balak | III/MECH |

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COLLEGE OF ENGINEERING





| S.No | Reg.No | Students Name | Year/Branch |
|------|--------------|--------------------|-------------|
| 19 | 811220114003 | Anbarasan M | III/MECH |
| 20 | 811220114005 | Arunkumar M | III/MECH |
| 21 | 811220114008 | Balamurugan R | Ш/МЕСН |
| 22 | 811220114013 | Dhanushraja P | ПІ/МЕСН |
| 23 | 811220114015 | Durai Pandi A | ІШ/МЕСН |
| 24 | 811220114017 | Hariharan M | ПІ/МЕСН |
| 25 | 811220114020 | Kanishkavardhini S | III/MECH |
| 26 | 811220114026 | Loganathan C | III/MECH |
| 27 | 811220114032 | Mohamed Ashif A | III/MECH |
| 28 | 811220114039 | Sanjay Kumar M | III/MECH |
| 29 | 811220114040 | Santhosh Kumar R | III/MECH |
| 30 | 811220114042 | Saranya Sree Tr | III/MECH |
| 31 | 811220114043 | Saravanan M | III/MECH |
| 32 | 811220114044 | Sathishkumar V | III/MECH |
| 33 | 811220114047 | Sheik Ameer M | Ш/МЕСН |
| 34 | 811220114052 | Thamaraiselvan K | III/MECH |
| 35 | 811220114056 | Vigneswaran K | III/MECH |
| 36 | 811220114057 | Vijayakumar G | III/MECH |
| 37 | 811220114060 | Yuvaraja A | III/MECH |
| 38 | 811220114302 | Chellapandian R | III/MECH |
| 39 | 811220114305 | Mohamed Nafil A | III/MECH |

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| S.No | Reg.No | Students Name | Year/Branch |
|------|--------------|----------------|-------------|
| 40 | 811220114306 | Ruban A | III/MECH |
| 41 | 811221114006 | Dhanasejaran D | II/MECH |
| 42 | 811221114008 | Dhiwakar R | II/MECH |
| 43 | 811221114014 | Kannan P | II/MECH |
| 44 | 811221114022 | Naveen M | II/MECH |
| 45 | 811221114030 | Santhosh R | II/MÈCH |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



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OF ENOUGH

Dr. G Balakrishman, M.E., Ph.D.
Principal
Indra Ganesan College of Engineerin
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012

VALUE ADDED COURSE

"Mechanical Electrical and Plumbing Method"

STUDENTS ATTENDANCE SHEET

| S.No | Reg.No | Students Name | | | TE: | | TE: | | TE: | | TE: 12.22 | | TE: 12,22 | NO OF | SIGNATURE |
|------|--------------|----------------------------|-------------|----|-----|----|-----|----|-----|----|--------------|----|--------------|----------------------|-------------------|
| | | | Year/Branch | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | SESSIONS ATTENDED | OF THE STUDENT |
| 1 | 811219114001 | Aathilingam V | IV/MECH | | | | | | - | | | | | | |
| | 811219114002 | Abimanyu C | IV/MECH | 7 | -1 | 7 | 7 | 1 | 7 | 7 | 1 | 1 | 7 | lo | Addinger |
| 3 | 811219114003 | Ajay S | IV/MECH | 7 | ~ | 7 | a | 1 | 7 | 1 | 1 | 1 | 7 | 69 | Abrimaga c |
| 4 | 811219114004 | Christy Lourthu Samy A | IV/MECH | 1 | 1 | 1 | a | 7 | 1 | 4. | n | 7 | 1 | 09 | Airy . 3 |
| 5 | 811219114006 | Periyasamy P | IV/MECH | 7 | 1 | 1 | 1 | 1 | 1 | 7 | 7 | 1 | 1 | lo | duto A |
| 6 | 811219114008 | Saravana Kumar V | IV/MECH | 7 | 1 | 1 | 7 | 1 | 1 | 1 | 7 | 7 | 1 | 16 | Paripagn F |
| 7 | 811219114010 | Siriyac Selva A | IV/MECH | 7 | 7 | 1 | 7 | 1 | 7 | 7 | a | 7 | 1 | 09 | Samuel |
| 8 | 811219114011 | Suriyaganesh M | IV/MECH | 7 | 1 | 1 | ~ | 1. | a | 7 | 1 | 7 | 1 | . 09 | Tore |
| 9 | 811219114012 | Vaithiyalingam M | IV/MECH | 7 | 1 | 1 | 1 | 'n | 7 | 7 | 1 | 7 | 7 | æq | Isangunghi M |
| | | · warri A erritt Renti TAT | YAMATIOTI | 1 | 1 | 7 | | 1 | a | 7 | 1 | 1 | 1 | 09 | Vaithrightery |



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Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

| S.No | Reg.No | Students Name | | | ATE: 12.22 | | TE: 12.22 | | TE: 12.22 | | TE: 12.22 | | TE: (2.22 | NO OF | SIGNATURE |
|------|--------------|------------------|-------------|----|---------------|----|--------------|----|--------------|-----|--------------|----|--------------|----------------------|-------------------|
| | | | Year/Branch | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | SESSIONS ATTENDED | OF THE STUDENT |
| 10 | 811219114013 | Vikash R | IV/MECH | _ | | | | | | | | | | | |
| 11 | 811219114301 | Hariharan R | IV/MECH | 7 | 7 | a | a | 7 | 1 | 1 | 7 | 1 | 1 | .08 | 6. vikay |
| 12 | 811219114302 | Mohanraj G | IV/MECH | 1 | 1 | 7 | 7 | 1 | a | 1 | 1 | 1 | 1 | 09 | 2 Haw |
| 13 | 811219114303 | | | 7 | 1 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | Ur. perchas |
| | | Sivash K | IV/MECH | 7 | 1 | 7 | 1 | 1 | 1 | 1 | 1 | | | | |
| 14 | 811219114701 | Gokul R | IV/MECH | | | | | | | ~ (| | 7 | Q. | 09 | 6.sivel |
| 15 | 811219114702 | Madhan Murugan S | IV/MECH | 7 | 7 | ~ | a | 7 | 1 | 1 | 1 | 7 | 1 | 109 | 8 am |
| 16 | 811219114703 | Muthukaruppan M | IV/MECH | 1 | 1 | 1 | 1 | 1 | 1 | a | a | 1 | 1 | to | stema |
| 17 | 811219114704 | Inigo Rithish P | | 1 | 1 | 7 | a | 1 | 1 | 1 | 1 | 1 | 1 | 09 | M. OUTW |
| | | | IV/MECH | 1 | 1 | 7 | 1 | 1 | 1 | a | a | 7 | 1 | | |
| 18 | 811220114001 | Abinesh As | III/MECH | a | a | | | | _ | | | | | | E. Inia |
| 19 | 811220114003 | Anbarasan M | III/MECH | - | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 E | 02 ntimer |
| 20 | 811220114005 | Arunkumar M | III/MECH | 1 | 1 | 1 | 1 | 1 | a | 1 | 1 | 1 | 1 | 09 | m. An bonab |
| 21 | 811220114008 | Balamurugan R | III/MECH | 1 | 1 | 7 | a | 7 | 1 | 7 | 1 | 1 | 1 | 08 | N. Brancin |
| | | | III/MECH | 1 | 1 | a | a | 7 | 1 | 1 | 1 | 1 | 7 | 58 | a galowino |



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| | | | | DA7 05.12 | | | TE: 12.2 | | DAT)7.12 | | DAT 08.1 | | DA' 09.1 | ΓE: 2.22 | NO OF SESSIONS | SIGNATURE OF THE STUDENT |
|-----|--------------|--------------------|-------------|--------------|------|----------|-------------|-----|--------------|-----|-------------|-----|-------------|-------------|-------------------|--------------------------------|
| .No | Reg.No | Students Name | Year/Branch | FN | AN | FN | A | N I | 7N | AN | ϝN | AN | FN | AN | ATTENDED | STODENT |
| | * | | III/MECH | | 17 | <u> </u> | + | | 1 | 1 | 1 | 1 | 1 | 1 | 09 | mary. P |
| 22 | 811220114013 | Dhanushraja P | | 7 | 7 | 7 | 0 | ٦ | | | ~1 | 1 | <u> </u> | | | Donipdi |
| 23 | 811220114015 | Durai Pandi A | III/MECH | 1 | 1 | - | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | (b | Jan 1 |
| | 811220114017 | Hariharan M | III/MECH | | | 1 | 7 | 7 | a | a | 1 | 1 | 1 | 1 | 98 | M. Jan |
| 24 | | | III/MECH | | - | | | - / | | | | a | 1 | 1 | 09 | Keristannal |
| 25 | 811220114020 | Kanishkavardhini S | The second | _ | 7 / | 1 1 | - | 1 | 1 | V | 1 | | | | 10 | Cla |
| 26 | 811220114026 | Loganathan C | III/MECH | _ | 1/ | 1 | 1 | 1 | ^ | ^ | 7 | 1 | - | 1 1 | (0 | |
| 27 | 811220114032 | Mohamed Ashif A | III/MECH | ~ | | | 1 | 1 | 1 | ^ | 1 | 1 | - | 1/ | 10 | Metamogh |
| | | Sanjay Kumar M | III/MECH | | | | 2 | | a | - | 1 -1 | 1 | 1 | 1 1 | 09 | M. Sing |
| 28 | 811220114039 | | Пі/МЕСН | 17 | 1 | 1.7 | + | 1 | 00 | | - | 1. | | | 09 | p S J |
| 29 | 811220114040 | Santhosh Kumar R | III | / | 1 .0 | 2 | 7 | 1 | 1 | 1 0 | 1 | 1 | - | 1 - | | 8.0 |
| 30 | 811220114042 | Saranya Sree Tr | Ш/МЕСН | _ | , | 1 | 7 | À | 1 | 1 1 | 1 | 2 | 1 . | 1 - | 1 09 | propose |
| | | Saravanan M | ш/месн | _ | | + | 1 | | 1 | 10 | | 11 | 7 4 | 1 1 | 7 08 | M. 80 |
| 31 | 811220114043 | | Ш/МЕСН | - | r a | - | 1 | 1 | - | + | | + | | | 7 10 | v. But |
| 32 | 811220114044 | Sathishkumar V | MINIECH | | 1 | 1 | 1 | 1 | 1 | 1 |) | 7 | 1 | 1 | | 0.4 |
| 33 | 811220114047 | Sheik Ameer M | III/MECH | | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 1 | 1: | 1. | 1 10 | M. 834 |



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Or G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012

| S.No | Reg.No | Students Name | | 05. | TE: 12.22 | | TE: 12.22 | | TE: 12.22 | | ATE: 12.22 | | ATE: 12.22 | NO OF | m, Trichy-620 0 |
|------|--------------|------------------|-------------|-----|--------------|----|--------------|----|--------------|----|---------------|-----|---------------|----------------------|-------------------|
| 34 | 0110001110 | | Year/Branch | FN | AN | FN | AN | FN | AN | FN | AN | FN | AN | SESSIONS ATTENDED | OF THE STUDENT |
| 34 | 811220114052 | Thamaraiselvan K | III/MECH | | | 13 | | | | | 111 | KIN | Aly | | PLODEMI |
| 35 | 811220114056 | Vigneswaran K | III/MECH | 7 | a | 7 | 1 | -1 | 1 | 7 | 2 | 1 | 1 | 09 | Thomas " |
| 36 | 811220114057 | | | 7 | 1 | 1 | 7 | a | O. | 1 | 7 | _ | | | , |
| 0.7 | | Vijayakumar G | III/MECH | 1 | ~ | | | | | È | | 7 | 1 | 68 | Vignet. |
| 37 | 811220114060 | Yuvaraja A | III/MECH | 1 | a | 7 | 1 | 7 | 1 | 1 | 1 | 1 | 1 | 09 | Vijayab. |
| 38 | 811220114302 | Chellapandian R | III/MECH | 7 | 9 | 1 | 1 | ~ | ~ | 7 | ~ | ~ | 7 | 10 | Ymaria |
| 39 | 811220114305 | | | ~ | 1 | 7 | 1 | 7 | 7 | 7 | 7 | ~ | 0 | | Chelle Pund |
| 10 | | Mohamed Nafil A | III/MECH | _ | a | | | | | | | | | | |
| 40 | 811220114306 | Ruban A | III/MECH | 7 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 09 | March |
| 41 | 811221114006 | Dhanasejaran D | | 1 | a | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 42 | 811221114008 | Dhiwakar R | II/MECH | 1 | 1 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | Repr. |
| 43 | 811221114014 | | II/MECH | 7 | 7 | 1 | 1 | -1 | 1. | 1 | _ | 1 | 1 | | Phinal- |
| | | Kannan P | II/MECH | 1 | 1 | 7 | 1 | | a | 1 | | 1 | | | I am wal- |
| 1-1 | 811221114022 | Naveen M | II/MECH | -1 | 1 | | 1 | | | 7 | 1 | | 7 | 09 | apon. |

VAC Coordinator



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| Name | of the | Student | |
|------|---------|---------|---|
| Hame | OI LIIC | Stautht | ē |

Year/Sem:

AU Register Number:

Value Added Course

"Mechanical electrical and plumbing methods"

MCQ QUESTIONS (25X4 = 100 Marks)

| MCQ QUESTIO | 143 (23A4 = 100 Marks) |
|--|--|
| 1. Pump Start but Motor get overloaded or Trip on | overload. |
| a) Alignment is wrong | c) Worn out / Damaged ball bearing |
| b) Gland packing too tight | d) Cavitations exists |
| 2. During flooding of a dry dock the following it | tems must be verified. |
| a). All sea valves are operational | c). All overboard discharge valves are operational |
| b) Stern tube seal are operational | d). All of the above |
| 3. Which type of valve is Bidirectional | |
| a) Globe valve | b) Gate valve |
| c) Ball valve | d) Butterfly valve |
| 4. Which of the following V/V cannot be overhaule | ed in place without removing piping?. |
| a) Ball Valve | b) Diaphragm valve |
| c) Globe valve | d) Butterfly valve |
| 5. The purpose of an evaporator in the domestic refi | rigeration system is to |
| a) Transmit latent heat of evaporation | b) Absorb latent heat of fusion |
| c)Absorb latent heat of evaporation | d)Transmit latent heat of fusion |
| 6. The attached vacuum pump of a ballast pump ope | erates on the principle of a: |
| a). Centrifugal pump | b). Reciprocating pump |
| c). Gear Pump | d). Vane Pump |

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



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- 7. Increasing the rotational speed of a cargo pump the pump flow rate will:
- a). Increase in direct proportion to the increase in speed in speed
- b). Decrease in direct proportion to the increase
- c). Flow rate doesn't depend upon speed
- d). Flow Increased
- 8. Shaft sealing of a main sea water pump for ship plying in coastal muddy waters, which is the best option

b). Lip seal with garter spring

c) Mechanical seal

d). Cup seal

- 9. The lower half of main bearing of a very large diesel engine can be removed by:
- a) Pulling out with a chain block

b). By hammering out with the help of a soft

mallet

- c). By slightly jacking the crankshaft and turning out the bearing half with a rope or similar tackle provided.
- d). By using a special tool in the oil hole and turning the shaft to turn out the lower half.
- 10. Direction of rotation of centrifugal pump is reversed by changing the motor connections

a. pump will deliver the liquid in reverse direction affected

b. pump discharge and capacity will be

c. efficiency will decrease

d.casing get overheated

- 11 .Most steam traps respond well to cleaning. But when a thermodynamic trap fails to operate after cleaning, the next course of action should be:
- a) Throttle the steam outlet valve

b). Renew the trap

c)Lap the disc and the seat of the trap

d). Throttle the steam inlet valve

- 12. When M/E stand by F.O.heater in use of main engine
- a) Sudden opening F.O. inlet valve pressurized and damage the heater b) F.O. in vapour lock inside heater allow steam
- c) F.O. inlet valve causes pressure drop M/E F.O. pressure standby water is not pressurized may cause sudden change in engine /per load/rpm d) heater leaking.

rishnan, M.E., Ph.D., Principal.

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| 13. Net Positive Suction Head is the | |
|---|--|
| a). Difference of Total suction head and Total discharge head | b). Difference of static head and the |
| frictional head | |
| c). Difference of dynamic suction head and the | |
| vapour pressure of liquid | d). Difference of Static suction head and the |
| vapour pressure of liquid | |
| | |
| 14. Which of the following will be required to be done in order | to reduce sculpture corrosion of Main Engine |
| components | |
| a). Increasing the atomization pressure of fuel injectors | b). Fitting exhaust valves with valve rotators |
| c). Running engine at or near normal sea load | d). Decreasing the F.O. purifier feed rate, |
| running two purifier in series one acting as purifier and other as | clarifier |
| 15. If the direction of rotation of a gear pump is reversed due to the pump is started? | change in-phase sequence, what happens when |
| a). Direction of flow remains the same | b). The pump will get damaged due to |
| overpressure on suction side | |
| C. Pump relief valve will be lifted | d). The direction of flow will be reversed |
| 16. you must have used rubber reinforced joints. The reinforcement | ent is normally provided using non asbestos |
| fibers. The reinforcement is provided because | |
| a) Ordinary rubber gasket has porous matrix. Having capillaries | which can allow liquid leakage when subjected |
| to high pressure. | |
| b) To increase load carrying capacity of the joint so it can withsta | |
| c) To increase temp resistance of joint | Dr. G. Balakrishnan, M.E., Ph.D. |
| d) To protect the joints from fire or other accidental damage. | Principal Indra Ganesan College of Engineerin |
| | io valley, Madurai Main Road |
| 17. Which of the following can lead to premature failure of roller | |

- 18. Metal cladding provides protection to the metal essentially for the life of ship because
- a). During cladding the protective coating reacts chemically with the base metal and inhibits corrosion
- b). This is the only method in which the completeness of the metal coating can assured, while other methods are liable to defects

b). Contamination

d). Over greasing

- c). The thickness of protective coating is greater compared to any other metal coating method used
- d). The adherence of coating is best in case of metal cladding

a). Misalignment

C. Shrinkage



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| 19. Butterfly valve stuck in half open position. How to repair | not same but related Q. |
|--|--|
| a. Can't b taken out in open position fr line so try to close valve | b) Apply hammer to shut it. |
| c. Remove pipeline n do overhaul | d) Cannot b repaired onboard. |
| 20. When steel components electroplated with chromium r used in o | corrosive environment |
| a. Chrome plating prevents corrosion | b).Protection to the steel will b |
| preferentially corroded | |
| c. zinc plating is used on top of chrome plating for corrosion protect | ction d).Thickness of chrome plating to |
| increase | |
| | |
| 21. Fire p/p1 water to deck discharge pr 5 bar deck hydrant not get | |
| water. Fire pump 1 unable to send water to hydrant. What is the reason | |
| a. Pump pressure gauge defective | b). Overboard discharge v/v fully |
| opened so water is not going to deck | |
| c. Pump suction filter choke | d). Pump discharge v/v may b stuck |
| 22. Double entry impeller of centrifugal pump | |
| a. Inc. axial thrust | b). Inc. motor load |
| c. Red. Load on pump bearings | d). Inc. load on pump |
| 23. Excessive lubrication in compressors can lead to: multiple | |
| a). Sticking of valves | b). Carryover and deposit of oil |
| particles in pipelines and reservoirs | |
| c). Decompression | d). Detonation |
| 24. In a three phase electrical equipment, the immediate action in the | e event of a fuse blowing in one of the |
| a). To replace with a fuse of correct rating | b). To replace fuses on all three phases |
| c). To try to repair the fuse | d)To investigate the fault that led to the |
| blowing of the fuse | |
| 25. Which of the following instruments measures propeller drop? | |
| a). Poker Gauge | b). Telescopic feeler gauge |
| c). Trammel Dr. G. Balakrishnan, M.E., Ph.E. | d). Propeller drop gauge |
| Indian a micipal | |

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Value Added Course

"Mechanical electrical and plumbing methods"

ANSWER KEY

| 1 | d | 6 | С | 11 | b | 16 | b | 21 | a |
|---|---|----|---|----|---|----|---|----|---|
| 2 | ь | 7 | d | 12 | С | 17 | b | 22 | С |
| 3 | С | 8 | a | 13 | a | 18 | d | 23 | b |
| 4 | Ъ | 9 | b | 14 | b | 19 | a | 24 | d |
| 5 | a | 10 | d | 15 | d | 20 | d | 25 | С |

Dr. G. Balakrishnan, M.E., Ph.D. Principal

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VAC Coordinator



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Name of the Student: Covid R

Year/Sem: Tu /meu.

AU Register Number: 8112 19114701

Value Added Course

"Mechanical electrical and plumbing methods"

MCQ QUESTIONS (25X4 = 100 Marks)

| 1. Pump Start but Motor get overloaded or Trip on o | verload |
|--|--|
| a) Alignment is wrong | c) Worn out Damaged ball bearing |
| b) Gland packing too tight | d) cavitations exists |
| 2. During flooding of a dry dock the following iter | ns must be verified. |
| a). All sea valves are operational | c). All overboard discharge valves are operational |
| Stern tube seal are operational | d). All of the above |
| 3. Which type of valve is Bidirectional | |
| a) Globe valve | b) Gate valve |
| Ball valve | d) Butterfly valve |
| | |
| 4. Which of the following V/V cannot be overhauled | in place without removing piping?. |
| a) Ball Valve | (b)Diaphragm valve |
| c) Globe valve | d) Butterfly valve |
| / | |
| 5. The purpose of an evaporator in the domestic refrig | geration system is to |
| a Transmit latent heat of evaporation | b) Absorb latent heat of fusion |
| c)Absorb latent heat of evaporation | d)Transmit latent heat of fusion |
| 6. The attached vacuum pump of a ballast pump opera | ates on the principle of a: |
| a). Centrifugal pump | b). Reciprocating pump |
| Gear Pump | d). Vane Pump |
| | |

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7. Increasing the rotational speed of a cargo pump the pump flow rate will:

a). Increase in direct proportion to the increase in speed in speed

b). Decrease in direct proportion to the increase

c). Plow rate doesn't depend upon speed

d). Flow Increased

8. Shaft sealing of a main sea water pump for ship plying in coastal muddy waters, which is the best option

b). Lip seal with garter spring d). Cup seal

c) Mechanical seal

9. The lower half of main bearing of a very large diesel engine can be removed by:

a) Pulling out with a chain block mallet

b). By hammering out with the help of a soft

c). By slightly jacking the crankshaft and turning out the bearing half with a rope or similar tackle provided.

(d) By using a special tool in the oil hole and turning the shaft to turn out the lower half.

10. Direction of rotation of centrifugal pump is reversed by changing the motor connections

a. pump will deliver the liquid in reverse direction affected

b. pump discharge and capacity will be

c. efficiency will decrease

d.casing get overheated

11 .Most steam traps respond well to cleaning. But when a thermodynamic trap fails to operate after cleaning, the next course of action should be:

a) Throttle the steam outlet valve

c)Lap the disc and the seat of the trap

Renew the trap

d). Throttle the steam inlet valve

12. When M/E stand by F.O.heater in use of main engine

a) Sudden opening F.O. inlet valve pressurized and damage the heater b) F.O. in vapour lock inside heater allow steam

O. inlet valve causes pressure drop M/E F.O. pressure standby water is not pressurized may cause sudden change in engine /per load/rpm

d) heater leaking.

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NAAC Accredited, 2(F) Status Institution by UGC Net Positive Suction Head is the

(a) Difference of Total suction head and Total discharge head frictional head

b). Difference of static head and the

c). Difference of dynamic suction head and the vapour pressure of liquid vapour pressure of liquid

d). Difference of Static suction head and the

14. Which of the following will be required to be done in order to reduce sculpture corrosion of Main Engine components

a). Increasing the atomization pressure of fuel injectors

b) Fitting exhaust valves with valve rotators

c). Running engine at or near normal sea load

d). Decreasing the F.O. purifier feed rate,

running two purifier in series one acting as purifier and other as clarifier

15. If the direction of rotation of a gear pump is reversed due to change in-phase sequence, what happens when the pump is started?

a). Direction of flow remains the same overpressure on suction side

b). The pump will get damaged due to

C. Pump relief valve will be lifted

The direction of flow will be reversed

16. you must have used rubber reinforced joints. The reinforcement is normally provided using non asbestos fibers. The reinforcement is provided because

a) Ordinary rubber gasket has porous matrix. Having capillaries which can allow liquid leakage when subjected to high pressure.

b) To increase load carrying capacity of the joint so it can withstand high pr.

c) To increase temp resistance of joint

d) To protect the joints from fire or other accidental damage.

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17. Which of the following can lead to premature failure of roller bearings?

a). Misalignment

M. Contamination

C. Shrinkage

d). Over greasing

18. Metal cladding provides protection to the metal essentially for the life of ship because

- a). During cladding the protective coating reacts chemically with the base metal and inhibits corrosion
- b). This is the only method in which the completeness of the metal coating can assured, while other methods are liable to defects
- c). The thickness of protective coating is greater compared to any other metal coating method used
- d). The adherence of coating is best in case of metal cladding



(c) Trammel

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| MARC Acticulted, Aff I Status and | titution by occ |
|--|---|
| 10 Posts Street on the helf own marks TV | and annual businests and O. |
| 19. Butterfly valve stuck in half open position. How to repair | · · |
| a Dan't b taken out in open position fr line so try to close valve | |
| c. Remove pipeline n do overhaul | d) Cannot b repaired onboard. |
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| a. Chrome plating prevents corrosion . | b).Protection to the steel will b |
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| c. zinc plating is used on top of chrome plating for corrosion prote | ection d). Thickness of chrome plating to |
| increase | |
| 21. Fire p/p1 water to deck discharge pr 5 bar deck hydrant not ge | tting water. Fire p/p2 discharge pr 2:5 gives |
| water. Fire pump I unable to send water to hydrant. What is the re- | ason? |
| a Fump pressure gauge defective | b). Overboard discharge v/v fully |
| opened so water is not going to deck | |
| c. Pump suction filter choke | d). Pump discharge v/v may b stuck |
| 22. Double entry impeller of centrifugal pump | |
| a. Inc. axial thrust | b). Inc. motor load |
| c. Red. Load on pump bearings | d). Inc. load on pump |
| | |
| 23. Excessive lubrication in compressors can lead to: multiple | |
| a). Sticking of valves | b) Carryover and deposit of oil |
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| c). Decompression | d). Detonation |
| 24. In a three phase electrical equipment, the immediate action in the | ne event of a fuse blowing in one of the |
| phases, would be: | / |
| a). To replace with a fuse of correct rating | b). To replace fuses on all three phases |
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| 25. Which of the following instruments measures propeller drop? | |
| a). Poker Gauge | b). Telescopic feeler gauge |

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d). Propeller drop gauge





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Department of Mechanical Engineering Academic Year 2022-2023 – Odd Semester VALUE ADDED COURSE ASSESEMENT SHEET

Principal
Indra Ganesan College of Engan
IG Valley, Madurai Main Ro
Manikandam, Trichy-620

"Mechanical Electrical and Plumbing method"

| S.No. | Reg.No | Student's Name | Year/ Branch | Attendance Details | | VAC-M | OVERALL | |
|-------|--------------|------------------------|--------------|-------------------------------|--------------------------------|-----------------------------|-------------------------|---------------------------------------|
| | | | | No. of Session Attended | Attendance Mark(100) (A) | No of Correct Answers | MCQ Mark(100) (B) | MARK(100) (50% of A + 50% of B) |
| 1 | 811219114001 | Aathilingam V | IV/MECH | 30 | 100 | 20 | 80 | 90 |
| 2 | 811219114002 | Abimanyu C | IV/MECH | 29 | 97 | 16 | 64 | 80 |
| 3 | 811219114003 | Ajay S | IV/MECH | 28 | 93 | 18 | 72 | 83 |
| 4 | 811219114004 | Christy Lourthu Samy A | IV/MECH | 30 | 100 | 21 | 84 | 92 |
| 5 | 811219114006 | Periyasamy P | IV/MECH | 29 | 97 | 17 | 68 | 82 |
| 6 | 811219114008 | Saravana Kumar V | IV/MECH | 28 | 93 | 18 | 72 | · 83 |



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IG Valley, Madurai Main Road

| CN | D 11 | 2.12 | | Attendance Details | | VAC-MCQ TEST | | OVERALL |
|-------|--------------|------------------|--------------|-------------------------------|--------------------------------|-----------------------------|-------------------------|---------------------------------------|
| S.No. | Reg.No | Student's Name | Year/ Branch | No. of Session Attended | Attendance Mark(100) (A) | No of Correct Answers | MCQ Mark(100) (B) | MARK(100) (50% of A + 50% of B) |
| 7 | 811219114010 | Siriyac Selva A | IV/MECH | 29 | 97 | 19 | 76 | 86 |
| 8 | 811219114011 | Suriyaganesh M | IV/MECH | 30 | 100 | 21 | 84 | 92 |
| 9 | 811219114012 | Vaithiyalingam M | IV/MECH | 28 | 93 | 20 | 80 | 87 |
| 10 | 811219114013 | Vikash R | IV/MECH | 27 | 90 | 18 | 72 | 81 |
| 11 | 811219114301 | Hariharan R | IV/MECH | 28 | 93 | 17. | 68 | 81. |
| 12 | 811219114302 | Mohanraj G | IV/MECH | 30 | 100 | 18 | 72 | 86 |
| 13 | 811219114303 | Sivash K | IV/MECH | 29 | 97 | 19 | 76 | 86 |
| 14 | 811219114701 | Gokul R | IV/MECH | 28 | 93 | 21 | 84 | 89 |
| 15 | 811219114702 | Madhan Murugan S | IV/MECH | 26 | 87 | 20 | 80 | 83 |
| 16 | 811219114703 | Muthukaruppan M | IV/MECH | 28 | 93 | 22 | 88 | 91 |
| 17 | 811219114704 | Inigo Rithish P | IV/MECH | 24 | 80 | 20 | 80 | 80 |



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| S.No. | Dog Ma | G. 1. 4. 57 | _ | Attendance Details | | VAC-MCQ TEST | | OVERALL |
|-------|--------------|--------------------|--------------|-------------------------------|--------------------------------|-----------------------------|-------------------------|---------------------------------------|
| | Reg.No | Student's Name | Year/ Branch | No. of Session Attended | Attendance Mark(100) (A) | No of Correct Answers | MCQ Mark(100) (B) | MARK(100) (50% of A + 50% of B) |
| 18 | 811220114001 | Abinesh As | III/MECH | 26 | 87 | 21 | 84 | 85 |
| 19 | 811220114003 | Anbarasan M | III/MECH | 28 | 93 | 20 | 80 | 87 |
| 20 | 811220114005 | Arunkumar M | III/MECH | 28 | 93 | 22 | 88 | 91 |
| 21 | 811220114008 | Balamurugan R | III/MECH | 26 | 87 | 18 | 72 | 79 |
| 22 | 811220114013 | Dhanushraja P | III/MECH | 28 | 93 | 19 | 76 | 85 |
| 23 | 811220114015 | Durai Pandi A | III/MECH | 30 | 100 | 18 | 72 | 86 |
| 24 | 811220114017 | Hariharan M | III/MECH | 24 | 80 | 21 | 84 | 82 |
| 25 | 811220114020 | Kanishkavardhini S | III/MECH | 28 | 93 | 22 | 88 | 91 |
| 26 | 811220114026 | Loganathan C | III/MECH | 30 | 100 | 20 | 80 | 90 |
| 27 | 811220114032 | Mohamed Ashif A | III/MECH | 30 | 100 | 21 | 84 | 92 |
| 28 - | 811220114039 | Sanjay Kumar M | III/MECH | 28 | 93 | 20 | 80 | 87 |



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Manikandam, Trichy-620 012.

| S.No. | Reg.No | Student's Name | W. (D. | Attendance Details | | VAC-MCQ TEST | | OVERALL |
|-------|--------------|------------------|--------------|-----------------------------|-------------------------|------------------|------------------|---------------------------------------|
| | | o I talife | Year/ Branch | No. of Hours Attended | Attendance Mark(100) | No of Correct | MCQ Mark(100) | MARK(100) (50% of A + 50% of B) |
| 29 | 811220114040 | Santhosh Kumar R | III/MECH | 28 | (A) 93 | Answers 22 | (B) 88 | 91 |
| 30 | 811220114042 | Saranya Sree Tr | III/MECH | 28 | 93 | 20 | 80 | 87 |
| 31 | 811220114043 | Saravanan M | III/MECH | 26 | 87 | 22 | 88 | 87 |
| 32 | 811220114044 | Sathishkumar V | Ш/МЕСН | 30 | 100 | 20 | 80 | |
| 33 | 811220114047 | Sheik Ameer M | III/MECH | 30 | 100 | 21 | | 90 |
| 34 | 811220114052 | Thamaraiselvan K | III/MECH | 28 | 93 | | 84 | 92 |
| 35 | 811220114056 | Vigneswaran K | III/MECH | | | 20 | 80 | 87 |
| 36 | 811220114057 | Vijayakumar G | ПІ/МЕСН | 26 | 87 | 22 | 88 | 87 |
| 37 | 811220114060 | | | 28 | 93 | 21 | 84 | 89 |
| 38 | | Yuvaraja A | III/MECH | 30 | 100 | 22 | 88 | 94 |
| | 811220114302 | Chellapandian R | Ш/МЕСН | 30 | 100 | 20 | 80 | 90 |
| 39 | 811220114305 | Mohamed Nafil A | III/MECH | 28 | 93 | 21 | 84 | 89 |





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| S.No. | Reg.No | Student's Name | Year/ Branch | Attendance Details | | VAC-MCQ TEST | | OVERALL |
|-------|--------------|----------------|--------------|-----------------------------|--------------------------------|-----------------------------|------------------|---------------------------------------|
| | | | | No. of Hours Attended | Attendance Mark(100) (A) | No of Correct Answers | MCQ Mark(100) | MARK(100) (50% of A + 50% of B) |
| 40 | 811220114306 | Ruban A | III/MECH | 28 | 93 | 16 | (B) 64 | 79 |
| 41 | 811221114006 | Dhanasejaran D | II/MECH | 30 | 100 | 18 | 72 | 86 |
| 42 | 811221114008 | Dhiwakar R | II/MECH | 30 | 100 | 21 | 84 | 92 |
| 43 | 811221114014 | Kannan P | II/MECH | 28 | 93 | 17 | 68 | 81 |
| 44 | 811221114022 | Naveen M | II/MECH | 30 | 100 | 18 | 72 | 86 |

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012. HOD MECHANICAL

Report on Value Added Course Mechanical Electrical and Plumbing Methods Title: Mr Abhu Mr.David Ubaharasamy Resource Person: Co-ordinator Executive. UNIQ-MEP, **UNIO-MEP** Trichy Trichy 30 Hours 09.12.2022 Duration: To: 05.12.2022 Date of conduct from: MECHANICAL ENGINEERING Organized Department: No. of Students Registered: Participant Year: 2,3,4 Mechanical Seminar Hall Venue: Outcome of Value Added Course (VAC): At the end of the Course, Students can able to Know real-world examples of on-the-job safety and health issues

Know how to protect themselves and others from accidental deaths and injuries.

Broad understanding of how hazards in the workplace can be controlled.

Students are expected to learn and practice the skills they will need in the workplace.

They receive required training on equipment they will use, and work processes they will

Develop a foundational understanding of safety systems.

Assessment Process

• Students, who are securing more than 70% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted

• Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

Dr. G. Balakrishnan.

Principal

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Manikandam, Trichy-620 Q12.

VAC Coordinator

Principal



COLLEGE OF ENGINEERING





Sample Photo of Value Added Course

Title:

Mechanical Electrical and Plumbing Methods

Resource Person:

Mr.Abhu

Co-ordinator

UNIQ-MEP

Trichy

Mr.David Ubaharasamy

Executive,

UNIQ-MEP,

Trichy

Date of conduct from:

05.12.2022

To:

09.12.2022

Duration:

30 Hours

Organized Department:

MECHANICAL ENGINEERING

Participant Year:

2,3,4

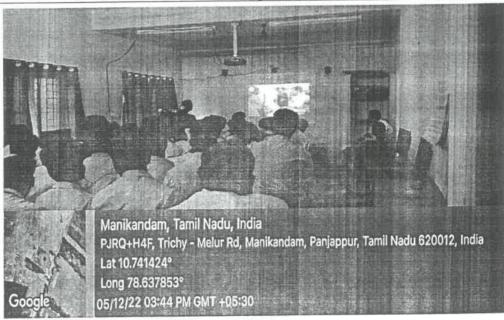
No. of Students Registered:

45

Venue:

Mechanical Seminar Hall

Sample Photo



VAC Coordinator

номесн

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

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