



CGC – Continuous Learning Assessment and Progression (CLAP) Cell
Sponsored
2 Days Students Workshop on
DESIGN OF LIQUID PROPELLANT ROCKET ENGINES (FUNDAMENTALS & CALCULATIONS)
24th & 25th February 2023
Coimbatore Institute of Technology, Coimbatore – 641014, Tamil Nadu, India.



REPORT

Type of Event	:	Students Workshop
Title of the Event	:	2 Days Students Workshop on Design of Liquid Propellant Rocket Engines (Fundamentals and Calculations)
Date & Time	:	24.02.2023 & 25.02.2023 (9.00 AM to 5.00 PM)
Face to Face / Online	:	Face to Face
Number of students	:	55
Number of CIT students	:	39 (Male – 37 & Female – 2)
Number of students from other colleges	:	16 (Male – 12 & Female – 4)

Day 1:

Design of Liquid Propellant Rocket Engines from Fundamental Equations

Venue: Main Building Conference Hall (MBCH)

The session focused on deriving fundamental equations which are essential in designing a liquid propellant rocket engine. The fundamental concepts of Thermodynamics was applied in deriving these equations. The mode of delivery was Chalk and Talk along with power point presentation.



Day 1 - Introductory Session (Dr Valliappan Raman & Dr N Rajam Ramasamy)



Day 1 - Session at MBCH

Day 2:

Modelling of Liquid Propellant Rocket Engine using SolidWorks

Venue: CAD/CAM Laboratory

The sessions focused on modelling the liquid propellant rocket engine to suitable specifications as derived in the previous day. SolidWorks was used for solid modelling. Sketching tools were introduced to first year students and they were given hands on experience in sketching and modelling a liquid propellant rocket engine.



Day 2 - Session at CAD/CAM Laboratory



Distribution of Certificates by Dr Valliappan Raman & Dr N Rajam Ramasamy

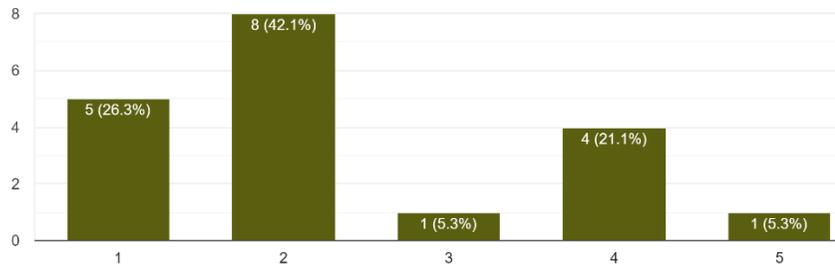


Group Photo of Students with Mr N Maha Vignesh (Resource Person)

Feedback from participants

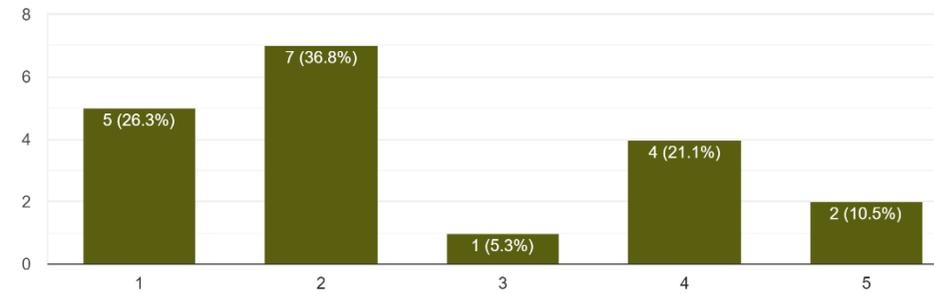
How well did the programme meet your expectations?

19 responses

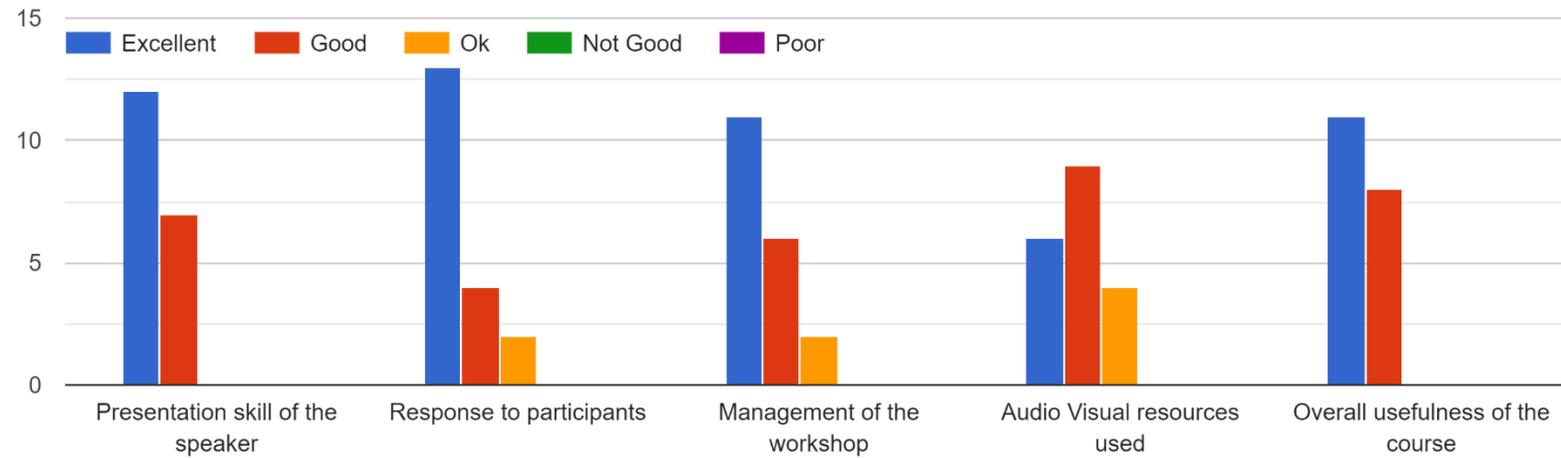


How well were the stated objectives of the course achieved?

19 responses



How satisfied were you with the following?



Suggestions for improving the Workshop.

1. Organizing workshop for 5 days
2. It could have been even more interactive session
3. More interesting way to reach effectively
4. It is already better, but i feel if a little more importance is given in derivation part, it would make it more better .
5. More importance on derivation parts would have been better
6. Extend 1 day for Deep n complete explanation
7. It was overall useful
8. We thought we may be exposed to hands on experience
9. Sound effectiveness have to be improved
10. Management should provide mic
11. To have good sound system and new topics
12. Technical equipment is need for better understanding
13. Increase the duration of workshop
14. Making the students come on time. The Presenter had came earlier but not the students. Kindly Focus on Time Management.
15. Can extend the number of work day of workshop.
16. Can increase number of days
17. More and more workshops on different concepts
18. Use mic...

What other field/area would you like us to conduct workshop?

1. More about solid works
2. Manufacturing Sector
3. Rocket mechanics
4. Ansys fluent would be nice
5. Rocket propulsion
6. Aeroplane
7. Aerospace
8. Computational material science
9. Automobiles
10. Car,bike engine
11. Manufacturing
12. Automobile practical work shop
13. Automation solidworks software
14. Experimenting the Parameters which we use on Engineering (Pressure, Temperature, etc..) i.e. Workshops on Meterology
15. Designing
16. Related to aerospace
17. Embedded Systems
18. Design in solidworks
19. Automotives

Additional Feedback

1. No
2. Nothing than the above mentioned
3. It was very nice to get a hands on experience in designing an rocket engine. The guidance of the speaker made it feel easier and interesting .
4. No
5. Keep it up
6. No
7. We need automobile related workshops
8. Thanks a lot for maha Vignesh
9. Introduce new topics
10. Overall it gave new experience and knowledge of rocket propeller
11. Nothing
12. Keep motivating and guide us to make a successful career. Expecting a lot from CGC especially Sam sir.
13. Useful
14. Thank you for gives such opportunity
15. Career Guidance is satisfying the student's needs
16. Keep it up naaa
17. No