Brief Report on the Expert Lecture

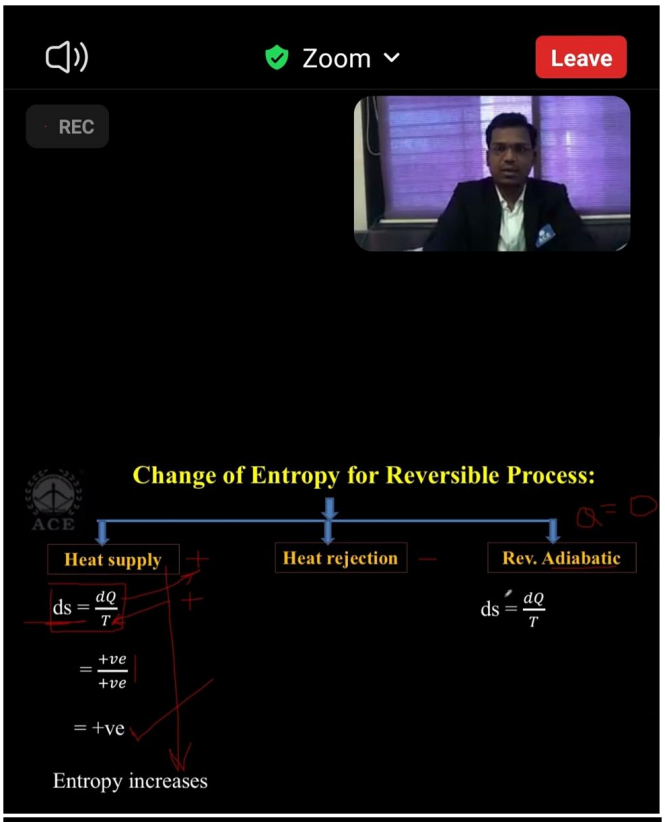
"Introduction to Thermal Engineering"
Organized by the Department of Mechanical Engineering
on March 30, 2022

The Department of Mechanical Engineering organized an online expert lecture on the topic "Introduction to Thermal Engineering" on March 30, 2022. The Expert speaker was Mr Shankar Jarasandh Wadne, Senior faculty Member, ACE Engineering Academy and an alumnus of WCE, Sangli.

The guest lecture commenced with the welcome address of Dr. P.K.Bharti, Head, Department of Mechanical Engineering. Thermal Engineering is a discipline of Mechanical Engineering that deals exclusively with heat energy and its transfer between not only different mediums but also into other usable forms of energy. It encompasses concepts involved in dealing with heating and cooling systems and the transfer of heat. Knowledge of thermal engineering is very instrumental for the areas like power industry, automobile industry and the heating ventilation and air conditioning (HVAC) industry.

Mr. Shankar Jarasandh Wadne introduced the students to the basic concepts of thermal engineering and elaborated on the most commonly asked topics in GATE and other competitive examinations. Mr Wadne also emphasized on competitive examination and importance of GATE scorecard for admissions in IITs, NITs & other master programs. He also informed about his own success story and the strategy adopted to make good commands on the various subjects.

The lecture was attended by the students as well as faculty members of the Department of Mechanical Engineering. The event concluded with the question-answer session and doubt clearing session. Mr. Meraj Ansari, Assistant Professor, Department of Mechanical Engineering presented the vote of thanks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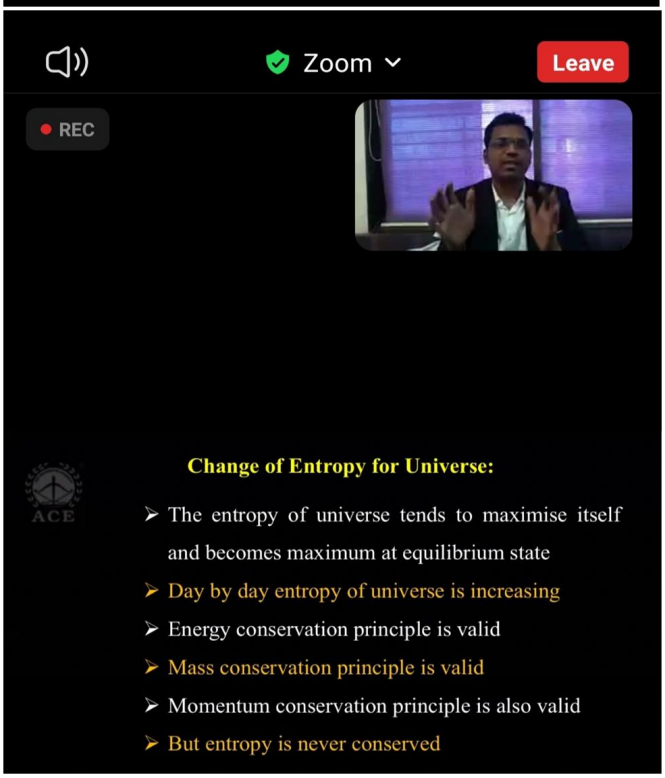
Change of Entropy for Reversible Process:
Heat supply
Heat rejection
Rev. Adiabatic
ds = dQ/T
= +ve/+ve
= +ve
Entropy increases
ds = dQ/T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Change of Entropy for Universe:
The entropy of universe tends to maximise itself and becomes maximum at equilibrium state
Day by day entropy of universe is increasing
Energy conservation principle is valid
Mass conservation principle is valid
Momentum conservation principle is also valid
But entropy is never conserved