

**MVSR Engineering College, Nadergul.**  
**Department of Mechanical Engineering**  
**COURSE OUTCOMES**

Class: B.E.III Year I Sem (Mech. Engg.)  
Name of the Course: **Applied Thermodynamics**  
Course Code: ME 301

At the end of the course student is able to

S.No	Outcomes	POs mapped	PSOs mapped
M 301.1	Compute the performance parameters of a single stage, multi stage reciprocating air compressors, recognize the applications of compressed air and understand the importance of intercoolers and after coolers in air compressors.	PO1, PO2, PO3, PO4, PO5.	PSO1.
M 301.2	Classify the internal combustion engines, compute the associated performance parameters and predict the suitability and applications of different types of engines.	PO1, PO2, PO3, PO4, PO5, PO7, PO12.	PSO1, PSO2.
M 301.3	Summarize the combustion phenomenon for SI and CI engines vis-à-vis the various terms associated with the stages of combustion and ascertain the suitability of IC engine under different operating conditions.	PO1, PO3, PO4, PO5, PO6, PO7, PO10, PO12.	PSO1, PSO2.
M 301.4	Correlate the latest emission control standards being followed in our country with the corresponding adaptations to be followed in the selection of fuel and design of the engine to ensure that the prescribed norms are enforced.	PO1, PO3, PO4, PO5, PO6, PO7, PO10, PO12.	PSO1, PSO2.
M 301.5	Interpret the classification of boilers and suggest the suitable boilers for various industrial applications by comparing and contrasting the advantages and disadvantages of different boilers. With the aid of detailed performance calculations related to boilers, the student would be able to estimate how to economize a given power plant	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO12.	PSO1, PSO2.
M 301.6	Interpret the basic Rankine cycle used in the analysis of a thermal power plant and evaluate the merits of using reheating, regeneration and cogeneration for possible tangible improvement in the performance of the plant.	PO1, PO2, PO3, PO4, PO5, PO7, PO9, PO12.	PSO1, PSO2.
M 301.7	Perform calculations related to flow through nozzles and suggest its suitability for different applications.	PO1, PO2, PO3.	PSO1.

