

SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY(A)

DEPARTMENT OF MECHANICAL ENGINEERING

COURSE OUTCOMES

Academic year: 2024-2025

Year/sem- III-I (R20)

CO	Course Outcome(CO) Statement- At the end of the Course, the student	Blooms
Num	ber will be able to	Taxonomy
	Thermal Engineering-II(C311)	
C31	and outle temperate of mermal engineering and boners.	Understand
C31	and steam turblines.	Analyze
C311	Gain knowledge about the concepts of reaction turbine and steam condensers.	Apply
C311	.4 Understand the concepts of reciprocating and rotary type of compressors.	Understand
C311	.5 Acquire knowledge about the centrifugal and axial flow compressors.	Understand
	Design of Machine Members-I(C312)	
C312	Understand the materials and their properties along with manufacturing considerations.	Understand
C312.	and the strength of machine clements	Understand
C312.	joints, keys, cotters and knuckle joints	Analyze
C312.	Understand and apply the knowledge in designing the shafts and shaft couplings	Analyze
C312.:	Understand and apply the knowledge in designing the mechanical springs.	Analyze
	Machining_Machine Tools & Metrology(C313)	
C313.1	Discuss the concepts of machining processes	Analyze
313.2	Apply the principles of lathe, shaping, slotting and planning machines	Apply
313.3	11 5 Transfer of arming, mining and borning processes.	Apply
313.4	Analyze the concepts of finishing processes and the system of limits and fits.	Analyze
313.5	Learn the concepts of surface roughness and optical measuring instruments.	Understand
	Renewable Energy Sources (C314)	
314.1	Analyze solar radiation data, extra-terrestrial radiation, radiation on earth's surface and solar Energy Storage.	Analyze
14.2	Explain the wind turbines	Understand
14.3	Explain the biomass and geothermal energy.	Understand

C314		Understand
C314	Evaluate the concept and working of Fuel cells & MHD power generation.	Evaluate
	Advanced Materials (C315)	
C315		Understand
C315		Understand
C315.		Analyze
C315.		Understand
C315.	5 Distinguish the nano materials	Analyze
	Machine Tools Lab(C316)	
C316.	Discuss the concepts of machining processes	Analyze
C316.2	Apply the principles of lathe, shaping, slotting and planning machines	Apply
C316.3	The principles of driffing, fiffing and boring processes.	Apply
2316.4	Analyze the concepts of finishing processes and the system of limits and fits.	Analyze
2316.5	Learn the concepts of surface roughness and optical measuring instruments.	Understand
22171	Thermal Engineering Lab(C317)	
2317.1	Determine flash point, fire point, calorific value of different fuels using various apparatus.	Apply
317.2	of petrol and diesel engines.	Analyze
	Demonstrate speed test, performance test and cooling temperature on petrol and diesel engines.	Apply
	Demonstrate performance test and determine efficiency of air compressor.	Apply
	Understand the principles through assembly and disassembly of 2/3 wheelers, 2/4 stroke engines,tractor, heavy duty engines and boilers and their mountings and accessories	Understand
	Advanced Communication Skills Lab(C318)	
18.1 I	mprove the students fluency and develop their vocabulary.	
	Listen and speak effectively	Understand.
		Understand.

C318.3	Develop proficiency in academic reading and writing	Apply
C318.4	Apply to different ways of communication skills	Apply
C318.5	Make students industry ready	Apply
	Professional Ethics and Human Values(C319)	,
C319.1	Explain the concept of Human values	Understand.
C319.2	Explain the knowledge about the principles of engineering ethics	Understand.
C319.3	Explain the concept of engineering as social experimentation.	Understand,
C319.4	Explain the concept of engineers' responsibility for safety and risk	Understand.
C319.5	Explain the knowledge about the engineers' rights and responsibilities	Understand.

COORDINATOR

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