MAR ATHANASIUS COLLEGE OF ENGINEERING, KOTHAMANGALAM – 686 666.
(GOVERNMENT AIDED AUTONOMOUS ENGINEERING COLLEGE)

DEPARTMENT OF MECHANICAL ENGINEERING

FIRST SESSIONAL EXAMINATION, MARCH 2025
S2 CIVIL A & B BATCHES

B24ES1T04: BASIC MECHANICAL ENGINEERING

Time –45 Minutes **Max: 20 Marks**

PART-A
Answer All Questions.

1	Discuss water cooling system in IC engine with neat figure	**CO4**	**4 Marks**
2	Compare two stroke engines with four stroke engines	**CO4**	**4 Marks**

PART - B

3	a. How hydraulic turbines are classified?	**CO4**	**4 Marks**
	b. Discuss the working of Francis Turbine with a neat figure marking all the parts.	**CO4**	**8 Marks**

Vision
Mentoring to ensure Excellence
Mission
To facilitate comprehensive and integrated development of students by providing quality education that encourages sustainable practices
To mould disciplined and socially committed engineers capable of assuming professional leadership upholding national integrity