

Faculty of Mechanical Engineering**M.E. Aeronautical Engineering****(R 2021) Semester - I**

Course Code: AO4111		
Course Title: Low Speed and High Speed Aerodynamics Laboratory		
Sl.No.	Description of Equipment	Required members (for batch of 25 students)
1.	Subsonic wind tunnel	1 No.
2.	Supersonic wind tunnel	1 No.
3.	3 (or) 6 Component type Wind tunnel balance	1 No.
4.	Schlieren System	1 No.
5.	Pressure Transducer / Pressure scanner (1 psi)	1 No.
6.	Multitube Manometer	1 No.
7.	Pitot-Static Tube	1 No.
8.	Yaw probe	1 No.
9.	Smooth cylinder model	1 No.
10.	Rough cylinder model	1 No.
11.	Symmetric aerofoil model	1 No.
12.	Cambered aerofoil model	1 No.
13.	Wing of Cambered aerofoil section model	1 No.
14.	Bluff body model	1 No.
15.	Flat plate with accessories for velocity boundary layer Measurement	1 No.
16.	Aircraft model with provision to mount on wind tunnel balance	1 No.
17.	Subsonic flow visualization setup (Smoke generator/Heleshaw/Water flow channel)	1 No.
18.	Blower	1 No.

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Course Code: AO4112		Course Title: Jet Propulsion Laboratory
Sl.No.	Description of Equipment	Required members (for batch of 25 students)
1.	High Speed Jet Test facility	1 No.
2.	Supersonic Wind Tunnel	1 No.
3.	Subsonic Wind tunnel	1 No.
4.	Schlieren system/Shadowgraph system	1 No.
5.	Pressure Transducer / Pressure scanner (16 psi)	1 No.
6.	C-D Nozzle	1 No.
7.	Convergent Nozzle	1 No.
8.	Convergent Nozzle with wall pressure tapings	1 No.
9.	Pitot tube	1 No.
10.	3 Axis Traverse Mechanism	1 No.
11.	Pitot Static tube	1 No.
12.	Flame holder model	1 No.
13.	Non-circular combustor	1 No.
14.	Wide angle subsonic diffusers	1 No.
15.	Multitube Manometer	1 No.
16.	Compressor cascade blade setup with provision to change incidence angle	1 No.
17.	Cavity model	1 No.
18.	Spike or Ramp type supersonic inlet with wall pressure tapings	1 No.
19.	C-D Nozzle with wall pressure tapings	1 No.
20.	Blower	1 No.
21.	Yaw probe	1 No.