

Faculty of Mechanical Engineering

M.E. Aerospace Technology

(R 2017) Semester –I

AO5161 AERODYNAMICS LABORATORY

(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Subsonic wind tunnel	1		
2.	Rough and smooth cylinder	1		
3.	Symmetrical Cambered aerofoil	1		
4.	Wind tunnel balance	1		
5.	Schlieren system	1		
6.	Pressure Transducers	2		
7.	Supersonic wind tunnel	1		

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AS5112 AEROSPACE PROPULSION LABORATORY
(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Jet facility with compressor and storage tank	1		
2.	Multitube manometer	4		
3.	Wind tunnel - (subsonic 1)	1		
4.	Pressure transducer with pressure indicator (0 to 5 bar) or DSA pressure scanner	1		
5.	Conical flame holder	1		
6.	Compressor blade set	1		
7.	Circular and non-circular combustors	1		
8.	Bomb calorimeter	1		

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(R 2017) Semester – II

AO5261 STRUCTURES LABORATORY

(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Constant strength beam setup	2		
2.	Column setup	2		
3.	Unsymmetrical Bending setup	2		
4.	Experimental setup for location of shear centre (open & close section)	2		
5.	Cantilever beam setup	2		
6.	Experimental setup for bending and torsional loads	2		
7.	Diffuser transmission type polariscope with accessories	1		
8.	Experimental setup for vibration of beams	1		
9.	Universal Testing Machine	1		
10.	Wagner beam setup	1		

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(R 2017) Semester – II
AS5211 AVIONICS LAB

(Requirements for a batch of 25 students)

Sl. No.	Description of Equipment	Quantity required (R)	Quantity available (A)	Deficiency (R - A)
1.	Microprocessor 8085 Kit	13		
2.	Adder/Subtractor Binary bits Kit	13		
3.	Encoder Kit	13		
4.	Decoder Kit	13		
5.	Multiplexer Kit	13		
6.	Demultiplexer Kit	13		
7.	computers	25		
8.	Regulated power supply	13		
9.	MATLAB software (licence for 25 users)	25		