PROPULSION LAB AND FLIGHT SIMULATION LAB

Course Code	Category	н	Hours / Week			Max	kimum	Marks
A5AE21	PCC							
		-	-	P 3	1.5	30	3EE	10ta
OURSE OBJECTIVE	S:					00	10	
The purpose of this subj engineering applications	ect is to provide the st	tudents w	vith the tl	heoretica	al backgrou	ind and		
1. To understand the phy 2. To learn fundamental	ysical behaviour of va calculations in heat tr	rious jet e ansfer ap	engines plicable	to prop	ulsion.			
	LIST O	F EXPE	RIMEN	TS				
 PROPULSION LAB Stripping of a pistor trouble shooting	and its components. ine (Port Timing Diagine (Valve Timing) ton engine 2-stroke ton engine 4-stroke on piston engine AB unication and Navigation ake-off and landing P Take-off and landing toe travelled by the air	ction and ram) on syster ed-Power erforman Performa rcraft usir	ns Method ce ance ag GPS	ng for co	ommon trou	bles an	ıd	
Reference Books:								
1. H. Cohen, G. F. (C. Rogers and H. I. H.	Saravan	amuttoo	, "Gas T	urbine The	ory", Lo	ongman,	2006.
2. M. L. Mathur and Distributors, Dell	R. P. Sharma, "Gas T ni, 2007.	urbine, J	et and R	Rocket P	ropulsion",	Standa	rdPublisl	hers &
COURSE OUTCOMES	:							
At the end of the course . Identify the components	the students are able s of IC engines and de	to: evelop wo	orking cy	cle of IC	engines.			
 Evaluate the performan Predict the Calorific Val Explain the navigation s Calculate CL and CD for 	ce of 2S and 4S Engi ue of a solid propellar systems and calculate an aircraft.	nes and (nt. the dista	Generate	e heat ba relled	alance shee	et for IC	Engine.	

6. Predict the effect of flaps and Weight on Take-off and landing.