



Dr. M. Sundararaj M.E. Ph.D

03/07/2020

Head

Ref No:Cir/Aero/2020/010

CIRCULAR

This is to intimate the students that Value Added Program titled "Design of fixed wing Unmanned Aerial Vehicles" is scheduled to be conducted from 07/07/2020. The course will be for a duration of 30 hours and will be conducted during weekends. Further Details can contact the Course Coordinator Mr. M.Syedhaleem Assistant Professor Department of Aeronautical Engineering.

HoD-Aero

Copy to:

- 1. Copy to All school of Engineering
- 2. Copy to Dean Engineering
- 3. Copy to Pro-VC
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- 5. Copy to IQAC



🕹 No.173, Agharam Road, Selaiyur, Chennai-600073.



Department of Aeronautical Engineering

Value Added Course

online Courses on Design of fixed wing Unmanned Aerial Vehicles

Objective:

This course introduces the initial designing and sizing process for rapidly growing xed – wing UAV technology, integrated with its performance and stability analysis and prototype testing.

Course Co-ordinator: M.Syedhaleem

COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	07/07/2020 (FN)	Introduction to xed-wing UAVs, Introduction to Design, Basic Design Parameters.	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering College Chennai
2	07/07/2020 (AN)	Basic Design Parameters contd., Design Algorithm: Case Study, Design Algorithm: Mission Requirements.	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering
3	08/07/2020 (FN)	Design Algorithm: Feasible Design Parameters, Conguration Layout: Airfoil Selection Conguration	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering College Chennai
4	08/07/2020 (AN)	Layout: Planform Geometry selection	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering College Chennai
5	09/07/2020 (FN)	Weight and CG Estimation Analytical Parameter Estimation	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering College Chennai
6	09/07/2020 (AN)	Analytical Parameter Estimation contd.	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering College Chennai
7	10/07/2020 (FN)	Performance and Stability Analysis contd.	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering College Chennai





8	10/07/2020 (AN)	Simulation, Detailed Sizing	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering College Chennai
9	11/07/2020 (FN)	Estimation of inertial properties using 3D modelling, Prototype Fabrication	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering College Chennai
10	11/07/2020 (AN)	Wind Tunnel Testing, Aerodynamic Characterization through Wind Tunnel Testing	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering College Chennai

	BOOKS AND REFERENCES				
ı	Introduction to Flight by John D. Anderson				
2	Performance, Stability, Dynamics, and Control of Airplanes by Bandu N. Pamadi				
3	Aircraft performance and design by John D. Anderson				
4	Unmanned Aircraft Design A review of fundamentals by Mohammad H. Sadraey				
5	Aircraft Design : A Conceptual Approach by Daniel P. Raymer				
6	Unmanned Aircraft Systems: UAVs Design Development and Deployment by Reg Austin				
7	Small Unmanned Fixed-wing Aircraft Design: A Practical Approach by Andrew J. Keane and James P. Scanlan				

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		Department of Aeronautical Engineering
	***************************************	Value Added Course
		Course onDesign of fixed wing Unmanned Aerial Vehicles
		List of students Registered on 07.07.2020
SNO	Reg NO	Name of the Student
1	U14AE001	ABDULLAH KHAN
2	U14AE003	
3	U14AE007	ANANDILC
4	U14AE009	ANNAPAREDDY NAGA SAI SRINIVAS
5	U14AE011	BANDARU SANTHOSH KUMAR
6	U14AE014	
7	U14AE015	
8	U14AE018	BONALA KAMSALA RAGHAVENDRA
9	U14AE019	CHARLES SAMEER TOPPO
10	U14AE020	
11	U14AE047	NAKKALA KARUNAKAR
12	U14AE050	
13	U14AE051	NAVEEN KUMAR P
14	U14AE052	NISHANT SHUKLA
15	U14AE054	
16	U14AE058	
17	U14AE059	PRAGATHY.D
18	U14AE060	PRATHAP L
19	U14AE067	B.SATHISH KUMAR
20	U14AE068	SATHIYA SEELAN.E
21	U14AE069	SAYAN BHATTACHARJEE
22	U14AE071	SELVAGANAPATHY R
23	U14AE072	SHAIK KHADER SHARIEF
24	U14AE074	SHANMUGANANDAN.M
25	U14AE076	SIDHAREDDY MANIGANDAN
26	U14AE077	SIMGAVARJULA VEDAVYAS
27	U14AE078	SINGANA SRI ARAVIND
28	U14AE082	THOTA, MANIKANTA ANKARAO
29	U14AE083	THUPAKULA DEVA KRISHNA
30	U14AE084	
31	U14AE087	VIJAY RAJ SIVANGI
32	U14AE088	VISHWATEJA KUMAR REDDY.V
33	U14AE089	YALAMARTHI TULASI RAM
34	U14AE091	YOGRAJ SONAR
35	-	SYED SHAFATH R
36		CLEVIN ALBERT NEONGNENG
37	U14EC002	AARTHI.P





38	U14EC010	AMARJEET KUMAR	
39	U14EC011	R AMULYA	
40	U14EC012	MAHAMKALI VENKATA SAI NANDAANIRUDH.	
41	U14EC017	ASARA ANITH RAO	
42	U14EC024	CHANDRALEKA.K	
43	U14EC025	CHEKURI.VENKATA MAHESH	
44	U14EC031	DEEPAK.A	
45	U14EC032	DESHI VENKATESH	
46	U14EC039	GADE MALLA REDDY	
47	U14EC040	GARAGA SIVA SURYA DEEPAK	<u> </u>
48	U14EC042	GOURU VENKATA SAI PRAKASH	
49	U14EC044	GUJJARI SHIVADURGA PRASAD	(3)
/	Higher Education of the Control of t		M. Salandid



Participant Feedback Form (On course completion)

Date!! (07.1. 2020							
Courseµm.	ANNED AERIAL	VEHICI€S	ĸ				
Student Name (option	al)AOARSIIB	S.R.					
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a) Helpful and knowledge	eable staff:						
a) Helpful and knowledgeable staff:							
Very satisfied	Satisfied	Somewhat satisfied	Not satisfied				
b) Staff friendliness: Very satisfied	Satisfied	Somewhat satisfied	Not satisfied				
C) Ease of registration:		parties and the same and the sa					
Very satisfied	Satisfied	Somewhat satisfied	Not satisfied				
2. Is there anything we can improve with our registration process?							
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B. The Training Facility							
3. How satisfied were you with the training facility on the follow							
a) Cleanliness of facility:							
Very satisfied	Satisfied	Somewhat satisfied	Not satisfied				
b) Comfort of training room: Very satisfied Satisfied Somewhat satisfied Not satisfied							
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4. Is there anything we can improve with any of the above?							
4. Is there anything we can improve with any of the above:							
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Participant Feedback Form (On course completion)

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a) Helpful and knowledgeable staff:							
Very satisfied		Satisfied	Somewhat satisfied	Not satisfied			
b) Staff friendliness: Very satisfied	2	Satisfied	Somewhat satisfied	Not satisfied			
C) Ease of registration: Very satisfied		Satisfied	Somewhat satisfied	Not satisfied			
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