



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

03/07/2020

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

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### 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 fixed-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 fixed-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, Configuration Layout: Airfoil Selection Configuration	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

1	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



*M. Sankar*



**Department of Aeronautical Engineering**

**Value Added Course**

**Course on Design 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	ADARSH B R
3	U14AE007	ANANDILC
4	U14AE009	ANNAPAREDDY NAGA SAI SRINIVAS
5	U14AE011	BANDARU SANTHOSH KUMAR
6	U14AE014	BALASUBRAMANIAN PL
7	U14AE015	BALINENI ANVESH
8	U14AE018	BONALA KAMSALA RAGHAVENDRA
9	U14AE019	CHARLES SAMEER TOPPO
10	U14AE020	CHARUMATHI.P
11	U14AE047	NAKKALA KARUNAKAR
12	U14AE050	NARHARI RAMEKAR
13	U14AE051	NAVEEN KUMAR P
14	U14AE052	NISHANT SHUKLA
15	U14AE054	PALAKADA BHAVANA
16	U14AE058	POONAM SHARMA.G
17	U14AE059	PRAGATHY.D
18	U14AE060	PRATHIAP 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	VENKATASUBRAMANIAN.I
31	U14AE087	VIJAY RAJ SIVANGI
32	U14AE088	VISHWATEJA KUMAR REDDY.V
33	U14AE089	YALAMARTHI TULASI RAM
34	U14AE091	YOGRAJ SONAR
35	U14AE502	SYED SHAFATH R
36	U14AE702	CLEVIN ALBERT NEONGNENG
37	U14EC002	AARTHI.P



10/5



# Participant Feedback Form

(On course completion)

Date ..... 11/07/2020 .....

Course ..... UNMANNED AERIAL VEHICLES .....

Student Name (optional) ..... ADARSH BR .....

Student ID (optional) ..... U14.AE003 .....

**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:**

Very satisfied       Satisfied       Somewhat satisfied       Not satisfied

**2. Is there anything we can improve with our registration process?**

..... No need .....

## 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

**4. Is there anything we can improve with any of the above?**

..... need more topic and courses .....

## Participant Feedback Form (On course completion)

Date ..... 11/07/2020 .....

Course ... Design of Fixed wing Unmanned Aerial vehicles .....

Student Name (optional) ... Yograj Sonar .....

Student ID (optional) .....

### 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:

Very satisfied       Satisfied       Somewhat satisfied       Not satisfied

2. Is there anything we can improve with our registration process?

..... Nil .....

## 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

4. Is there anything we can improve with any of the above?

..... No .....



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Department of Aeronautical Engineering

## Certificate of Participation

This acknowledges that

Chekuri. Venkata Mahesh  
U14EC025

Has undertaken 30 hours course on "DESIGN OF FIXED WING UNMANNED  
AERIAL VECHILES" Organized by DEPARTMENT OF AERONAUTICAL ENGINEERING,  
BIHER FROM 07.07.2020 TO 11.07.2020.

MR.M.SYEDHALEEM, PROGRAM  
COORDINATOR

HOD/AERO





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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF AERONAUTICAL ENGINEERING



Dr. M. Sundararaj M.E, Ph.D  
Head

05/01/2021

Ref No: Cir/Aero/2021/005

## CIRCULAR

This is to intimate the students that Value Added Program titled "Course on RC Aircraft Design" is scheduled to be conducted from 15/02/2021. The course will be for a duration of 30 hours and will be conducted during weekends. Further Details can contact the Course Coordinator Dr. M.Sundararaj Professor and Head, Department of Aeronautical Engineering.

*M. Sundararaj*  
HoD-Aero

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## Department of Aeronautical Engineering

Value Added Course

Online Course on RC Aircraft Design

### Objective :

This course will presents the entire process of aircraft conceptual design- from requirements definition to initial sizing, configuration layout, analysis, sizing, optimization, and trade studies.

Course Co-ordinator: Dr.M.Sundararaj

### COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	15/02/2021 (FN)	Overview of the Design Process, Airfoil and Geometry Selection, Thrust-to-Weight Ratio and Wing Loading	3 Hours	Ms.Vimalambigai, Design Executive, Big Bang Boom Solutions private limited
2	20/02/2021 (FN)	Initial Sizing, Control-Surface Sizing, Configuration Layout	3 Hours	Ms.Vimalambigai, Design Executive, Big Bang Boom Solutions
3	20/02/2021 (AN)	Aerodynamic Considerations, Structural Considerations, Vulnerability Considerations	3 Hours	Ms.Vimalambigai, Design Executive, Big Bang Boom Solutions private limited
4	21/02/2021 (FN)	Crew Station, Passengers, and Payload	3 Hours	Ms.Vimalambigai, Design Executive, Big Bang Boom Solutions private limited
5	21/02/2021 (AN)	Propulsion and Fuel System Integration, Fuel System, Landing Gear Arrangements	3 Hours	Ms.Vimalambigai, Design Executive, Big Bang Boom Solutions private limited
6	27/02/2021 (FN)	Step-by-Step Development of a New Design, Aerodynamics, Propulsion	3 Hours	Ms.Vimalambigai, Design Executive, Big Bang Boom Solutions private limited
7	27/02/2021 (AN)	Structures and Loads, Weights, Group Weights Method	3 Hours	Ms.Vimalambigai, Design Executive, Big Bang Boom Solutions private limited



8	28/02/2021 (FN)	Stability, Control, and Handling Qualities, Longitudinal Static Stability and Control, Lateral-Directional	3 Hours	Ms.Vimalambigai, Design Executive, Big Bang Boom Solutions private limited
9	28/02/2021 (AN)	Performance and Flight Mechanics, Equations of Motion, Operating Envelope	3 Hours	Ms.Vimalambigai, Design Executive, Big Bang Boom Solutions private limited
10	05/03/2021 (FN)	Cost Analysis, Operations and Maintenance Costs, Aircraft and Airline Economics	3 Hours	Ms.Vimalambigai, Design Executive, Big Bang Boom Solutions private limited

#### BOOKS AND REFERENCES

1	Aircraft performance and design by John D. Anderson
2	Unmanned Aircraft Systems : UAVs Design Development and Deployment by Reg Austin
3	Small Unmanned Fixed-wing Aircraft Design: A Practical Approach by Andrew J. Keane and James P. Scanlan



*M. S. S. S.*



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DEPARTMENT OF AERONAUTICAL ENGINEERING



## Department of Aeronautical Engineering

### Value Added Course

#### Online Course on RC Aircraft Design

#### List of students Registered on 15.02.2021

SNO	Reg NO	Name of the Student
1	U15AE004	ARAVINDAN A
2	U15AE022	KM JUHI GUPTA
3	U15AE023	KOLA JOHN HANNA JAYASHREE
4	U15AE034	PULUSU PARDHU SREE
5	U15AE041	SANJAY V
6	U15AE047	VALMIKI MANOJ KUMAR
7	U15AE050	YANAMADHALA AVINASH CHOWDARY
8	U15AE702	MOHD AMIR
9	U15AE062	SANDEEP G M
10	U15AE055	VASU P
11	U14AE004	AFSANA BANU
12	U14AE006	ANAND.M
13	U14AE008	ANBU KUMAR.P
14	U14AE011	BANDARU SANTHOSH KUMAR
15	U14AE015	BALINENI ANVESH
16	U14AE018	BONALA KAMSALA RAGHAVENDRA
17	U14AE022	M.DEVA
18	U14AE024	GANGIPELLI VINEETH
19	U14AE025	GODDU RAMESH
20	U14AE027	GUMMADI SANTOSH KUMAR
21	U14AE028	JAGANRAJ
22	U14AE030	JAVEED THAMEEM ANSARI.M.S
23	U14AE035	KAMAGONDA PRASAD
24	U14AE041	MARIAM AFRAHA
25	U14AE043	MOHDREHAN
26	U14AE044	M UDAY TEJA
27	U14AE046	M KRISHNA VAMSI
28	U14AE047	NAKKALA KARUNAKAR
29	U14AE049	NAND KISHOR BHARTI
30	U14AE051	NAVEEN KUMAR P
31	U14AE053	SUSMITHA PADAMATI
32	U14MT005	BALAJI.P
33	U14MT014	PREMKUMAR.V
34	U14MT022	SHALIN MORAY.S
35	U14MT026	VIGNESH.R
36	U14EC002	AARTHI.P
37	U14EC006	ADDUGALA RAMA DEVI



# Participant Feedback Form

(On course completion)

Date 05-03-2021

Course RC Aircraft Design

Student Name (optional) M. Deva

Student ID (optional) U14AE022

## 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:

Very satisfied       Satisfied       Somewhat satisfied       Not satisfied

## 2. Is there anything we can improve with our registration process?

no good only

## 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

## 4. Is there anything we can improve with any of the above?

no good only

# Participant Feedback Form

(On course completion)

Date ..05/03/2021...

Course .....RC AIRCRAFT DESIGN.....

Student Name (optional) .....AARTH.P.....

Student ID (optional) .....U.H.EC002.....

## 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:

Very satisfied       Satisfied       Somewhat satisfied       Not satisfied

## 2. Is there anything we can improve with our registration process?

.....NO.....

## 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

## 4. Is there anything we can improve with any of the above?

.....Very usefull.....



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Department of Aeronautical Engineering

## Certificate of Participation

This acknowledges that

Jaganraj  
U14AE028

Has undertaken 30 hours course on "RC AIRCRAFT DESIGN" Organized by  
DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 15.02.2021 TO  
05.03.2021

DR.M.SUNDARARAJ, PROGRAM  
COORDINATOR

HOD/AERO



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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF AERONAUTICAL ENGINEERING




Dr. M. Sundararaj M.E., Ph.D  
Head

04/01/2021

Ref No: Cit/Aero/2021/003

## CIRCULAR

This is to intimate the students that Value Added Program titled "Course on Quadcopter Design" is scheduled to be conducted from 11/01/2021. The course will be for a duration of 30 hours and will be conducted during weekends. Further Details can contact the Course Coordinator Mr. S.R.Vimalraj Assistant Professor, Department of Aeronautical Engineering.

  
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Declared as deemed to be university under section 3 of UGC Act 1956. vide notification No 9-52000-U-39

## Department of Aeronautical Engineering

Value Added Course

online Course on Quadcopter Design

### Objective :

This course introduces the designing and sizing process (Simulation/Experimental) for fixed ? wing UAV technology, integrated with its performance and stability analysis (Static & Dynamic) and prototype testing

Course Co-ordinator: S.R.Vimalraj

### COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	11/01/2021 (FN)	Review of the concepts of Quadcopter Design	3 Hours	Ms.Kavya, Managing Director, Big Bang Boom Solutions private limited
2	16/01/2021 (FN)	Understanding the static stability of various UAVs.	3 Hours	Ms.Kavya, Managing Director, Big Bang Boom Solutions private limited
3	16/01/2021 (AN)	Significance of location of Neutral point	3 Hours	Ms.Kavya, Managing Director, Big Bang Boom Solutions private limited
4	17/01/2021 (FN)	Centre of gravity for a stable flight	3 Hours	Ms.Kavya, Managing Director, Big Bang Boom Solutions private limited
5	17/01/2021 (AN)	Approach for wing design and airfoil selection with examples	3 Hours	Ms.Kavya, Managing Director, Big Bang Boom Solutions private limited
6	23/01/2021 (FN)	Tail sizing, control surface sizing and significance of tail volume ratio with examples	3 Hours	Ms.Kavya, Managing Director, Big Bang Boom Solutions private limited
7	23/01/2021 (AN)	Developing subroutine for design process	3 Hours	Ms.Kavya, Managing Director, Big Bang Boom Solutions private limited



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**Department of Aeronautical Engineering**

Value Added Course

online Course on Quadcopter Design

List of students Registered on 11.01.2021

SNO	Reg NO	Name of the Student
1	U15AE004	ARAVINDAN A
2	U15AE008	CHILAKALAPUDI YASHWANTH TEJA
3	U15AE012	DEGALA VINODKUMAR
4	U15AE022	KM JUHI GUPTA
5	U15AE014	EDWIN PRAKASH F
6	U15AE023	KOLA JOHN HANNA JAYASHREE
7	U15AE031	PARASA MAHENDRA
8	U15AE034	PULUSU PARDHU SREE
9	U15AE040	SANGEETHA N
10	U15AE041	SANJAY V
11	U15AE047	VALMIKI MANOJ KUMAR
12	U15AE050	YANAMADHALA AVINASH CHOWDARY
13	U15AE702	MOHD AMIR
14	U15AE062	SANDEEP G M
15	U15AE055	VASU P
16	U15AE053	PALLEKONDU SIRISHA
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	SIHANMUGANANDAN.M
25	U14AE076	SIDHAREDDY MANIGANDAN
26	U14AE077	SIMGAVARJULA VEDAVYAS
27	U14EC002	AARTHI.P
28	U14EC010	AMARJEET KUMAR
29	U14EC011	R AMULYA
30	U14EC012	MAHAMKALI VENKATA SAI NANDAANIRUDH.
31	U14EC017	ASARA ANITH RAO
32	U14EC024	CHANDRALEKA.K
33	U14EC025	CHEKURI.VENKATA MAHESH
34	U14EC031	DEEPAK.A
35	U14CS171	SHARSHI KANT PRASAD
36	U14CS186	SURIYA.A.



*[Handwritten signature]*

# Participant Feedback Form

(On course completion)

Date ...23/01/2021...

Course .....Q. AD. Capten Design.....

Student Name (optional) .....SURIYA A.....

Student ID (optional) .....UJH. CS186.....

### 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:

Very satisfied       Satisfied       Somewhat satisfied       Not satisfied

### 2. Is there anything we can improve with our registration process?

.....need online registration.....

## 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

### 4. Is there anything we can improve with any of the above?

.....Good.....

# Participant Feedback Form

(On course completion)

Date ...23/01/2021...

Course .....VAP ON CANADIAN Design.....

Student Name (optional) .....V.A.S.U.:P.....

Student ID (optional) .....U. ISAE. 055.....

## 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:

Very satisfied       Satisfied       Somewhat satisfied       Not satisfied

2. Is there anything we can improve with our registration process?

.....Need move Program Co-ordination.....

## 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

4. Is there anything we can improve with any of the above?

.....Regularly we need this type of Program.....



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Department of Aeronautical Engineering

## Certificate of Participation

This acknowledges that

Aravindan A  
U15AE004

Has undertaken 30 hours course on "**QUADCOPTER DESIGN**" Organized by  
DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 11.01.2021 TO  
23.01.2021.

MR.S.R.VIMAL RAJ, PROGRAM  
COORDINATOR

HOD/AERO