



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

Copy to:

1. Copy to All school of Engineering
2. Copy to Dean Engineering
3. Copy to Pro-VC
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# Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as deemed to be university under section 3 of UGC Act, 1956, vide notification No F 9-5/2000-U 3)

## 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

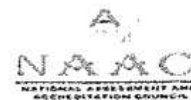


*M. S. S.*



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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY  
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