Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be-University under section 3 of UGC Act 1956)
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

NAAC
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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

05/01/2022

Ref No:Cir/Aero/2022 /002

CIRCULAR

This is to intimate the students that Value Added Program titled "Introduction to Aero Modeling" is scheduled to be conducted from 16.01.2022 . 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.

Copy to:

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

Bharath Institute of Higher Education & Research (Deemed to be University U/S 3 of UGC Act, 1956) AERONAUTICAL ENGINEERING DEPT. Chennai-600 073

HOD/Aero

Dr. M. SUNDARARAJ, M.E.,Ph.D.,
HOD
Department of Aeronautical Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Selaiyur, Chennai-600 073. INDIA

Department of Aeronautical Engineering

Value Added Course

Introduction to Aero Modeling

List of students Registered on 16.01.2022

SNO	Reg NO	Name of the Student
1	U15AE002	AJAY S
2	U15AE005	ARUP RATAN PARAMANIK
3	U15AE007	BOJJA MANOJ KUMAR
4	U15AE018	VASUDEVA REDDY I
5	U15AE016	GADDAM MADHUSUDHAN REDDY
6	U15AE021	KARTHIKEYAN R
7	U15AE028	MOPOORI BHARATH KUMAR
8	U15AE027	MERLIN TERESA P
9	U15AE038	KARISHMA CHANDINI S
10	U15AE044	SWETHA R
11	U15AE045	PEEMMASANI HANUMANTH RAO
12	U15AE049	YALAMARTHI SRAVANI
13	U15AE054	ANBARASAN
14	U15AE061	MOHAMMAD ALAM K A
15	U15AE056	ARUN KUMAR D
16	U15AE063	VITTAL ZAHID AHMED
17	U15ME006	ADHITHYAN
18	U15ME010	AKASH
19	U15ME018	ANISH
20	U15ME020	ANUP KUMAR SRIVASTAWA
21	U15ME023	ARUN
22	U15ME027	ASHISH PATEL
23	U15ME029	ASWIN GOPI
24	U15ME501	YUSUF MUBIN
25	U15ME502	VAROON
26	U15ME503	PADALA ROHITH GOUD
27	U15ME505	RAASHIK RAJA
28	U15ME506	ASAWTH
29	U15ME507	JEROME ANTON
30	U15ME508	RAJAVELU CHERVAI

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Department of Aeronautical Engineering

Value Added Course

Introduction to Aero Modelling

Objective :

Aeromodelling refers to the event of model aircrafts that will be static (made just for show, cannot fly) or purposeful (made for flying or gliding). Model aircrafts are the main scaled down versions of globe plane. These models are static or dynamic (that is that they're going to either fly or glide). The materials used for manufacturing such model airplanes square measure cinnamene, foam, balsa and building material. Completely different techniques are enforced for constructing models as per their functions. In this course, participants will understand the construction and working of aero model parts, and makes individuals to build a complete wireless controlled Aero model and receive a comprehensive overview of model aircraft systems and the subsystems that comprise them.

PRE-REQUISITES: Current students of Under Graduate engineering and current post graduate science students

Course Co-ordinator: Mr.S.R.Vimalraj

COURSE LAYOUT

S No	Date	Course Content	Duration	Instructor
1	16.01.2022 (FN)	Level - 1 Principles of Flight (Fixed wing / Rotary wing)	3 Hour	Dr.S.Elangovan, Professor & Dean Department of Aeronautical Engineering- BIHER
2	21.01.2022 (FN)	Level - 1 Special capabilities of Helicopters	2 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering college
3	21.01.2022(AN)	Level - 1 R/C aircraft power source	3 Hour	Dr.S.Elangovan, Professor & Dean Department of Aeronautical Engineering- BIHER

4	22.01.2022 (FN)	Level - 1 Airfield Layouts and Flying Principles	2 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering college
5	22.01.2022 (AN)	Level 2- Aeromodel Construction Basics	3 Hour	Dr.S.Elangovan, Professor & Dean Department of Aeronautical Engineering- BIHER
6	28.01.2022 (FN)	Level 2 - Design of electronic systems	2 Hours	Dr.S.Elangovan, Professor & Dean Department of Aeronautical Engineering- BIHER
7	28.01.2022 (AN)	Level 2- Pre-flight check	3 Hours	Dr.S.Elangovan, Professor & Dean Department of Aeronautical Engineering- BIHER
8	29.01.2022 (FN)	Level 3 - Aeromodel propulsion systems	2 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering college
9	29.01.2022 (AN)	Level 3 Attitude control systems	2 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering college
10	05.02.2022 (FN)	Level 3 Power management	2 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering college
11	05.02.2022 (AN)	Level 3 Digital signal transmission	3 Hours	Dr.S.Elangovan, Professor & Dean Department of Aeronautical Engineering- BIHER
12	06.02.2022 (FN)	Level 3 Fabrication and final Setup	3 Hours	Mr.M.Ramakrishna Assistant Professor Tagore Engineering college

BOOKS AND REFERENCES	
1	Lennon, A., "Basics of R/C Model Aircraft design: Practical Techniques for Building Better Models", Air Age media, September 1996, ISBN-13: 978-0911295405
2	Simmons, M., "Model Aircraft Aerodynamics, Fourth Edition," (Chris Lloyd Sales & Marketing, March 3, 2000), ISBN-13: 978-1854861900
3	Anderson Jr, J.D., "Fundamentals of Aerodynamics, 5th edition, (McGraw-Hill Education, February 12, 2010), ISBN-13: 978-0073398105
4	University of Maine, SAE Aero Capstone Group, "Design, Construction and Testing of a Remote Operation Heavy - Lift Model Aircraft," https://mhmaberry.files.wordpress.com/2015/03/umaine-sae-aero-design-finalreport.pdf, accessed Dec. 2015
5	MIT Open Course Ware, "Basic Aircraft Design Rules," http://ocw.mit.edu/courses/aeronautics-and-astronautics/16-01-unified-engineering-iii-iii-iv-fall-2005-spring-2006/systems-labs-06/spl8.pdf, accessed Jan. 2016

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Value Added Course

Introduction to Aero Modelling

Our Instructor "Mr.M.Ramakrishna Assistant Professor Tagore Engineering college" is Handling the session to our registered participants on Level 3 Attitude control systems

Participant Feedback Form

(On course completion)

Date 6/2/22

Course Introduction to Aeromodelling

Student Name (optional) Akash

Student ID (optional) 215ME210

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?

Not to make online process

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?

NIL

Participant Feedback Form

(On course completion)

Date ..06/02/2022

Course ..INTRODUCTION TO AERODMODELLING..

Student Name (optional) ..ANBARASAN.....

Student ID (optional) ...U15AE056.....

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, MAINTAIN THE SAME.....

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.....

Bharath

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Department of Aeronautical Engineering

Certificate

OF PARTICIPATION

THIS IS CERTIFY THAT

GADDAM
MADHUSUDHAN REDDY

has undertaken 30 Hours course on **"Introduction to Aero Modeling"** Organized by Department of Aeronautical Engineering, BIHER from 16.1.2022 to 06.02.2022.

Convenor

HOD/Aero