



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, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



Accredited by
NAAC
NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL

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

19/07/2019

F.No.Aero/Events-1.1/Value Added Course/2019

CIRCULAR

Department of Aeronautical Engineering is organising a Value Added Course on "Digitalisation in Aeronautics and Space" to be delivered by the eminent Industry expert and speaker **Mr. Satheesh P., Dassault Aviation** on **22/07/2019** for the students of B.Tech (Aeronautical & Aerospace Engineering). All the students are hereby instructed to be available for the said course.

HOD-Aero

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



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DEPARTMENT OF AERONAUTICAL ENGINEERING

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Department of Aeronautical Engineering

Value Added Course

Digitalisation in Aeronautics and Space

Objective :

The objective of the course is to provide an overview of the important digital applications in the field of aerospace industry and research.

Course Co-ordinator: Mr. R. Karthikeyan

COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	22/07/2019(FN)	Digitalisation and the Future of the Aerospace Industry	3 Hours	Mr. Satheesh P., Dassault Aviation
2	23/07/2019(FN)	Digitalisation in Production	3 Hours	Mr. Satheesh P., Dassault Aviation
3	23/07/2019(AN)	Managing Maintenance, Repair and Overhaul for Civil Aircraft	3 Hours	Mr. Satheesh P., Dassault Aviation
4	24/07/2019(FN)	Digital Transformation in the Space Industry	3 Hours	Mr. Satheesh P., Dassault Aviation
5	24/07/2019(AN)	Space and Digitisation	3 Hours	Mr. Satheesh P., Dassault Aviation
6	29/07/2019(FN)	Global Navigation Satellite Systems	3 Hours	Mr. Satheesh P., Dassault Aviation
7	29/07/2019(AN)	Digitisation in Earth Observation	3 Hours	Mr. Satheesh P., Dassault Aviation
8	30/07/2019(FN)	Requirements and challenges for humans, teams and organizations	3 Hours	Mr. Satheesh P., Dassault Aviation
9	30/07/2019(AN)	Collaborative Aircraft Design	3 Hours	Mr. Satheesh P., Dassault Aviation
10	31/07/2019(FN)	Modeling and Simulation of Aerospace Systems	3 Hours	Mr. Satheesh P., Dassault Aviation

BOOKS AND REFERENCES

1	Aerospace and Digitalization: A Transformation Through Key Industry 4.0 Technologies
2	Special Issue "Digitalization and Decision Support in Aerospace Maintenance Applications"



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Department of Aeronautical Engineering

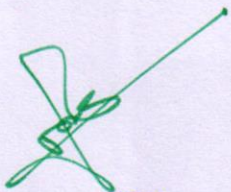
Value Added Course

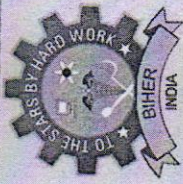
Digitalisation in Aeronautics and Space

List of students Registered on 22/07/2019

SNO	Reg NO	Name of the Student
1	U16AE001	SARKAR ABHIJIT
2	U16AE002	MOHAMMED FAHATH M S
3	U16AE003	ANTANIESKEMIN Y
4	U16AE004	KEERTHIVASAN J
5	U16AE005	CHARANKUMAR A
6	U16AE006	VIGNESH T
7	U16AE007	BOYANAPALLE SRINIVAS ANSHU BAB
8	U16AE008	SEELAM DURGA LAKSHMI PRIYANKA
9	U16AE009	LOKESH B
10	U16AE010	KANDULA THRINATH
11	U16AE011	KODAVALURU SAI BHAVANA
12	U16AE012	UJJWAL KUMAR SINGH
13	U16AE013	SARATH KUMAR S
14	U16AE014	PRAKASH GUPTA
15	U16AE015	MOHANISH DHRUW
16	U16AE016	KAVIBHARATHI T
17	U16AE017	HARIHARAN K
18	U16AE018	K S GANESH
19	U16AE019	PUNITHAN A
20	U16AE020	JANARTHANAN K
21	U16AE021	MANDALA HARI
22	U16AE022	VIGNESH A
23	U16AE023	NATARAJAN T M
24	U16AE024	SANTHOSH KUMAR SAHU
25	U16AE025	VAGGALA MAMATHA SRI
26	U16AE026	KESAVARAJU K V
27	U16AE027	GOLLA GOPAL
28	U16AE028	MUHUNTHANI B
29	U16AE029	GUDIPATI SIVAKUMAR
30	U16AE030	MONIKA VEMAGIRI
31	U16AE031	D VINOD RAO
32	U16AE032	ARUN R
33	U16AE034	SHAKEEL AKTHAR M
34	U16AE035	ADAPALA ANIL KUMAR

35	U16AE036	GHANTASALA PARASU RAJU
36	U16AE037	K GAMANA
37	U16AE038	GORIPARTHI PRATHYUSHA
38	U16AE039	MULAKA BHAVANA
39	U16AE041	LAKSHMI NARASIMHAN V
40	U16AE042	ADIGARLA BHANU PRASAD
41	U16AE043	SRI HARSHA VARMA MANTHENA
42	U16AE044	GOGULAMANDA VEERA SWAMY RAJIV
43	U16AE046	PRABAKARAN P
44	U16AE047	ZAHID AYOOB
45	U16AE048	PASUPULETI PUJITHA
46	U16AE501	AKASH V
47	U16AE502	RIYO PAULDUVIN M
48	U16AE503	RAJAGOPALAN NARAYANAN
49	U16AE504	MOHAMMED ARSHAD SAMEER F
50	U16AE702	GANJI GOWTHAM
51	U16AE703	GADUPUTI BALAJI
52	U16AE704	MEDIDARAJU VIGNENKUMAR RAJU
53	U16AS001	SARATH KUMAR S
54	U16AS003	GUDIPATI SIVAKUMAR
55	U16AS004	PRITHIVIRAJAN S M
56	U16AS005	PRASANNA PRAKASH J
57	U16AS006	VISHAVAK P S
58	U16AS007	RUMADE SHUBHAM NARAYAN
59	U16AS008	GONDAL PRANAY GOPAL
60	U16AS009	PUNITHAN A
61	U16AS010	ASHLIN KUMAR
62	U16AS501	KURAL ARASU L
63	U16AS502	DONTHA ADITYA
64	U17AE011	MANJUNADH ESHWAR P
65	U17AE013	CHITTI SAI SRAVAN KUMAR
66	U17AE014	VALLALA MUKESH GOUD
67	U17AS016	GUNJA LALITHA MAHESWARI


HOD,
Department of Aeronautical Engineering
Bharath Institute of Higher Education & Research
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 Selaiyur, Chennai-600 075, INDIA



Shriharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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Department of Aeronautical Engineering Certificate of Participation

This acknowledges that

GOGULAMANDA VEERA SWAMY RAJIV
U16AE044

Has undertaken 30 hours course on "**DIGITALISATION IN AERONAUTICS AND SPACE**" Organized by DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER
FROM 22.07.2019 TO 31.07.2019.

MR. R. KARTHIKEYAN
PROGRAM COORDINATOR

HOD/AERO

Participant Feedback Form

(On course completion)

Date 21/07/2015

Course Digitalisation in Aerocommunities and space

Student Name (optional) Alh Lindum

Student ID (optional) 216.A5010

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?

.....

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 comment



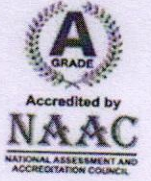
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



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

14/08/2019

F.No.Aero/Events-1.1/Value Added Course/2019

CIRCULAR

Department of Aeronautical Engineering is organising a Value Added Course on "Rotor and Wake Aerodynamics" to be delivered by the eminent Academic expert and speaker **Mr. Gowtham, IIT Madras (Aerospace Engg.)** on **16/08/2019** for the students of B.Tech (Aeronautical & Aerospace Engineering). All the students are hereby instructed to be available for the said course.

HOD,
Department of Aeronautical Engineering
Bharath Institute of Higher Education & Research,
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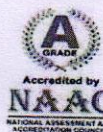
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DEPARTMENT OF AERONAUTICAL ENGINEERING

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Department of Aeronautical Engineering

Value Added Course

Rotor and Wake Aerodynamics

Objective :

To design models which can represent the aerodynamics of different rotor configurations.

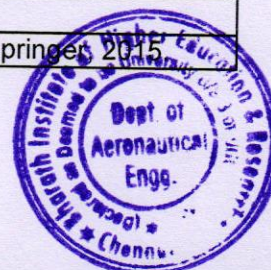
Course Co-ordinator: Mr.N.Kalaimani

COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	16/08/2019 (FN)	Momentum theory applied to rotor simulation and design and potential flow models for rotors	3 Hours	Mr. Gowtham, IIT Madras (Aerospace Engg.)
2	19/08/2019 (FN)	Airfoil aerodynamics	3 Hours	Mr. Gowtham, IIT Madras (Aerospace Engg.)
3	19/08/2019 (AN)	Unsteady aerodynamics	3 Hours	Mr. Gowtham, IIT Madras (Aerospace Engg.)
4	20/08/2019 (FN)	Aeroacoustics	3 Hours	Mr. Gowtham, IIT Madras (Aerospace Engg.)
5	20/08/2019 (AN)	Wake aerodynamic	3 Hours	Mr. Gowtham, IIT Madras (Aerospace Engg.)
6	21/08/2019 (FN)	Vertex line methods an structures	3 Hours	Mr. Gowtham, IIT Madras (Aerospace Engg.)
7	21/08/2019 (AN)	Vertical Axis Wind turbines	3 Hours	Mr. Gowtham, IIT Madras (Aerospace Engg.)
8	22/08/2019 (FN)	Wind farm Aerodynamics	3 Hours	Mr. Gowtham, IIT Madras (Aerospace Engg.)
9	22/08/2019 (AN)	Rotary wing Aerodynamics	3 Hours	Mr. Gowtham, IIT Madras (Aerospace Engg.)
10	23/08/2019 (FN)	Conservation laws of Actuator disk, Vertical and farward flight	3 Hours	Mr. Gowtham, IIT Madras (Aerospace Engg.)

BOOKS AND REFERENCES

- 1 | Chattot, J. J. and Hafez, M. M., "Theoretical and Applied Aerodynamics" Springer, 2015





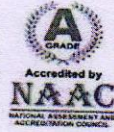
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Department of Aeronautical Engineering

Value Added Course

Rotor and Wake Aerodynamics

List of students Registered on 16/08/2019

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41	U16AE042	ADIGARLA BHANU PRASAD
42	U16AE043	SRI HARSHA VARMA MANTHENA
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46	U16AE047	ZAHID AYOOB
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68	U17AE012	PEREZHIL MUGUNDAN D
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70	U17AE014	VALLALA MUKESH GOUD
71	U17AE018	SINGAMPALLI HARISH
72	U17AE019	SAMBANTHAM S M S
73	U17AE033	PATAN KARIMULLA BABA
74	U17AE034	SINGULURI BHARADWAJ SATYANARAYANA
75	U17AE045	CHINTALA LAKSHMI NARAYANA
76	U17AE050	POTNURU HARI CHANDANA
77	U17AS016	GUNJA LALITHA MAHESWARI
78	U17AS017	WALTER JESUDOSS DEVARAM S





Department of Aeronautical Engineering

Certificate of Participation

This acknowledges that

GUDIPATI SIVAKUMAR
U16AE029

Has undertaken 30 hours course on "ROTOR AND WAKE AERODYNAMICS" Organized by
DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 16.08.2019 TO 23.08.2019.

MR. N. KALAIMANI, PROGRAM
COORDINATOR

HOD/AERO

Participant Feedback Form

(On course completion)

Date 23/08/2015

Course ROTOR AND WAKE AERODYNAMICS

Student Name (optional) LOKESH R

Student ID (optional) U16A009

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?

.....

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?

.....



Bharath

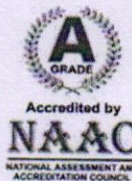
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Dr. M.Sundararaj M.E., Ph.D
Head

28/08/2019

F.No.Aero/Events-1.1/Value Added Course/2019

CIRCULAR

Department of Aeronautical Engineering is organising a Value Added Course on 'Introduction to Launch Vehicle Analysis and Design' to be delivered by the eminent Industry expert and speaker, **Mr. Daniel Peace, Semilac Labs, Bangalore** on **30/08/2019** for the students of B.Tech (Aeronautical & Aerospace Engineering). All the students are hereby instructed to be available for the said course.

HOD-Aero,

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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

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Department of Aeronautical Engineering

Value Added Course

Introduction to Launch Vehicle Analysis and Design

Objective :

The objective of the course is to introduce fundamental principles governing ascent mission trajectory design including the configuration design of launch vehicles.

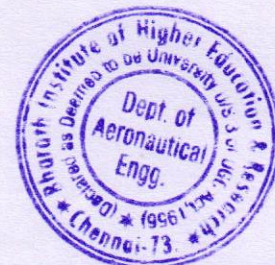
Course Co-ordinator: Mr.R.Manikandan

COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	30/08/2019 (FN)	Introduction about Launch Vehicles, Course Plan, Ascent Mission Basics.	3 Hours	Mr. Daniel Peace, Semilac Labs, Bangalore
2	02/09/2019 (FN)	Curvilinear Motion Concept, Constant Pitch Rate, Constant Velocity, Constant (T/m) solution	3 Hours	Mr. Daniel Peace, Semilac Labs, Bangalore
3	02/09/2019 (AN)	Ascent Mission Design, Multi-stage Rocket Concept	3 Hours	Mr. Daniel Peace, Semilac Labs, Bangalore
4	03/09/2019 (FN)	Idealized Performance, Trajectory Under Gravity, Impact of Gravity, Impact of Drag	3 Hours	Mr. Daniel Peace, Semilac Labs, Bangalore
5	03/09/2019 (AN)	Optimal Staging Concept, Lagrange's Solution, Approximate Staging, Concept of Rocket Variant	3 Hours	Mr. Daniel Peace, Semilac Labs, Bangalore
6	04/09/2019 (FN)	Variant Design Solution, Parallel Staging Concept, Relativistic and SSTO Rocket Concepts	3 Hours	Mr. Daniel Peace, Semilac Labs, Bangalore
7	04/09/2019 (AN)	Jet Damping and Spin in Rockets and Missiles	3 Hours	Mr. Daniel Peace, Semilac Labs, Bangalore
8	10/09/2019 (FN)	Air-breathing Rockets and Ballistic Missiles, Basics of Rocket Launching	3 Hours	Mr. Daniel Peace, Semilac Labs, Bangalore
9	10/09/2019 (AN)	Fundamentals of Re-entry, Typical Re-entry Techniques	3 Hours	Mr. Daniel Peace, Semilac Labs, Bangalore
10	11/09/2019 (FN)	Multi-stage Design Basics, Multi-stage Formulation	3 Hours	Mr. Daniel Peace, Semilac Labs, Bangalore

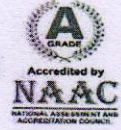
BOOKS AND REFERENCES

1	Thompson, 'Introduction to Space Dynamics', Dover Publications, New York, 1986.
2	Hale, 'Introduction to Space Flight', Prentice Hall, 1994
3	Wiesel, 'Spaceflight Dynamics', McGraw-Hill, 1997





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Website : www.bharathuniv.ac.in



Department of Aeronautical Engineering

Value Added Course

Course on Introduction to Launch Vehicle Analysis and Design

List of students Registered on 30/08/2019

SNO	Reg NO	Name of the Student
1	U16AE001	SARKAR ABHIJIT
2	U16AE002	MOHAMMED FAHATH M S
3	U16AE004	KEERTHIVASAN J
4	U16AE005	CHARANKUMAR A
5	U16AE006	VIGNESH T
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7	U16AE008	SEELAM DURGA LAKSHMI PRIYANKA
8	U16AE009	LOKESH B
9	U16AE010	KANDULA THRINATH
10	U16AE011	KODAVALURU SAI BHAVANA
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13	U16AE014	PRAKASH GUPTA
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29	U16AE031	D VINOD RAO
30	U16AE032	ARUN R
31	U16AE033	DEKKA SAI VENKATA SURYA AJAY KUMAR
32	U16AE034	SHAKEEL AKTHAR M
33	U16AE035	ADAPALA ANIL KUMAR
34	U16AE036	GHANTASALA PARASU RAJU

35	U16AE037	K GAMANA
36	U16AE038	GORIPARTHI PRATHYUSHA
37	U16AE039	MULAKA BHAVANA
38	U16AE040	THULLIMALLI RATNA KISHORE
39	U16AE041	LAKSHMI NARASIMHAN V
40	U16AE042	ADIGARLA BHANU PRASAD
41	U16AE043	SRI HARSHA VARMA MANTHENA
42	U16AE044	GOGULAMANDA VEERA SWAMY RAJIV
43	U16AE045	HURASU VENUH
44	U16AE046	PRABAKARAN P
45	U16AE047	ZAHID AYOOB
46	U16AE048	PASUPULETI PUJITHA
47	U16AE501	AKASH V
48	U16AE502	RIYO PAULDUVIN M
49	U16AE503	RAJAGOPALAN NARAYANAN
50	U16AE504	MOHAMMED ARSHAD SAMEER F
51	U16AE701	SHAIK GAFOOR
52	U16AE702	GANJI GOWTHAM
53	U16AE703	GADUPUTI BALAJI
54	U16AE704	MEDIDARAJU VIGNENKUMAR RAJU
55	U16AS001	SARATH KUMAR S
56	U16AS002	KESAVARAJU K V
57	U16AS003	GUDIPATI SIVAKUMAR
58	U16AS005	PRASANNA PRAKASH J
59	U16AS006	VISHAVAK P S
60	U16AS007	RUMADE SHUBHAM NARAYAN
61	U16AS008	GONDAL PRANAY GOPAL
62	U16AS009	PUNITHAN A
63	U16AS010	ASHLIN KUMAR
64	U16AS501	KURAL ARASU L
65	U16AS502	DONTHA ADITYA





Shriharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act.1956)

Department of Aeronautical Engineering

Certificate of Participation

This acknowledges that

K S GANESH
U16AE018

Has undertaken 30 hours course on "INTRODUCTION TO LAUNCH VEHICLE ANALYSIS AND DESIGN" Organized by DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 30.08.2019 TO 11.09.2019.

MR. M. RAMAKRISHNA, PROGRAM
COORDINATOR

HOD/AERO

Participant Feedback Form

(On course completion)

Date 11/09/2019

Course Introduction to launch Vehicle Analysis & Design

Student Name (optional) ARUN R

Student ID (optional) U16AE032

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 comments

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?

..... Study material should be given.



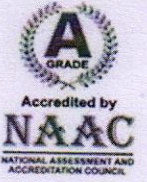
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(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



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

10/10/2019

F.No.Aero/Events-1.1/Value Added Course/2019

CIRCULAR

Department of Aeronautical Engineering is organising a Value Added Course on "Artificial Intelligence" to be delivered by the eminent Academic expert and speaker **Dr Kaliyamurthy, Department of Computer Science and Engineering BIHER** on **11/10/2019** for the students of B.Tech (Aeronautical & Aerospace Engineering). All the students are hereby instructed to be available for the said course.

HOD, Aero
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



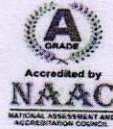
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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



Department of Aeronautical Engineering

Value Added Course

Artificial Intelligence

Objective :

Introduce students to the basic of AI and its various applications in Aeronautical and Aerospace Engineering.

Course Co-ordinator: Mr. M. Karthik

COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	11/10/2019 (FN)	Introduction to AI	3 Hours	Dr Kaliyamurthy, Dept. of Computer Sci. & Engg. BIHER
2	14/10/2019 (FN)	Introduction to Machine Learning	3 Hours	Dr Kaliyamurthy, Dept. of Computer Sci. & Engg. BIHER
3	14/10/2019 (AN)	Linear and Logistic Regression	3 Hours	Dr Kaliyamurthy, Dept. of Computer Sci. & Engg. BIHER
4	15/10/2019 (FN)	Introduction to Data Science	3 Hours	Dr Kaliyamurthy, Dept. of Computer Sci. & Engg. BIHER
5	15/10/2019 (AN)	Applications of Data Science	3 Hours	Dr Kaliyamurthy, Dept. of Computer Sci. & Engg. BIHER
6	16/10/2019 (FN)	Introduction to Neural Network-1	3 Hours	Dr Kaliyamurthy, Dept. of Computer Sci. & Engg. BIHER
7	16/10/2019 (AN)	Introduction to Neural Network-2	3 Hours	Dr Kaliyamurthy, Dept. of Computer Sci. & Engg. BIHER
8	17/10/2019 (FN)	Convolutional Neural Network	3 Hours	Dr Kaliyamurthy, Dept. of Computer Sci. & Engg. BIHER
9	17/10/2019 (AN)	Deep Neural Networks	3 Hours	Dr Kaliyamurthy, Dept. of Computer Sci. & Engg. BIHER
10	18/10/2019 (FN)	Applications of AI in Aeronautical and Aerospace Engineering	3 Hours	Dr Kaliyamurthy, Dept. of Computer Sci. & Engg. BIHER

BOOKS AND REFERENCES

1	Tom Mitchell, Machine Learning, McGraw Hill, 2017.
2	V.K. Jain, Data Sciences & Analytics, Khanna Publishing House.
3	Christopher M. Bishop, Neural Networks for Pattern Recognition, Oxford.





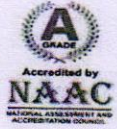
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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



Department of Aeronautical Engineering

Value Added Course

Artificial Intelligence

List of students Registered on 11/10/2019

SNO	Reg NO	Name of the Student
1	U16AE001	SARKAR ABHIJIT
2	U16AE002	MOHAMMED FAHATH M S
3	U16AE003	ANTANIESKEMIN Y
4	U16AE004	KEERTHIVASAN J
5	U16AE005	CHARANKUMAR A
6	U16AE006	VIGNESH T
7	U16AE007	BOYANAPALLE SRINIVAS ANSHU BAB
8	U16AE008	SEELAM DURGA LAKSHMI PRIYANKA
9	U16AE009	LOKESH B
10	U16AE010	KANDULA THRINATH
11	U16AE011	KODAVALURU SAI BHAVANA
12	U16AE012	UJJWAL KUMAR SINGH
13	U16AE013	SARATH KUMAR S
14	U16AE014	PRAKASH GUPTA
15	U16AE015	MOHANISH DHRUW
16	U16AE016	KAVIBHARATHI T
17	U16AE017	HARIHARAN K
18	U16AE018	K S GANESH
19	U16AE019	PUNITHAN A
20	U16AE020	JANARTHANAN K
21	U16AE021	MANDALA HARI
22	U16AE022	VIGNESH A
23	U16AE023	NATARAJAN T M
24	U16AE024	SANTHOSH KUMAR SAHU
25	U16AE025	VAGGALA MAMATHA SRI
26	U16AE026	KESAVARAJU K V
27	U16AE027	GOLLA GOPAL
28	U16AE028	MUHUNTHANI B
29	U16AE029	GUDIPATI SIVAKUMAR
30	U16AE030	MONIKA VEMAGIRI
31	U16AE032	ARUN R
32	U16AE033	DEKKA SAI VENKATA SURYA AJAY KUMAR
33	U16AE034	SHAKEEL AKTHAR M
34	U16AE035	ADAPALA ANIL KUMAR
35	U16AE036	GHANTASALA PARASU RAJU
36	U16AE037	K GAMANA

37	U16AE038	GORIPARTHI PRATHYUSHA
38	U16AE039	MULAKA BHAVANA
39	U16AE041	LAKSHMI NARASIMHAN V
40	U16AE042	ADIGARLA BHANU PRASAD
41	U16AE043	SRI HARSHA VARMA MANTHENA
42	U16AE047	ZAHID AYOOB
43	U16AE048	PASUPULETI PUJITHA
44	U16AE501	AKASH V
45	U16AE502	RIYO PAULDUVIN M
46	U16AE503	RAJAGOPALAN NARAYANAN
47	U16AE504	MOHAMMED ARSHAD SAMEER F
48	U16AE702	GANJI GOWTHAM
49	U16AE703	GADUPUTI BALAJI
50	U16AE704	MEDIDARAJU VIGNENKUMAR RAJU
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64	U17AE013	CHITTI SAI SRAVAN KUMAR
65	U17AE014	VALLALA MUKESH GOUD
66	U17AE018	SINGAMPALLI HARISH
67	U17AE019	SAMBANTHAM S M S
68	U17AE023	ATHOTA SURESH
69	U17AE024	PAVITHRA D
70	U17AE033	PATAN KARIMULLA BABA
71	U17AE034	SINGULURI BHARADWAJ SATYANARAYANA
72	U17AE045	CHINTALA LAKSHMI NARAYANA
73	U17AE050	POTNURU HARI CHANDANA
74	U17AS001	TARWIN PRINCE U
75	U17AS002	JUSTIN LEO J
76	U17AS016	GUNJA LALITHA MAHESWARI
77	U17AS017	WALTER JESUDOSS DEVARAM S
78	U17AS025	SUDHARSANASRINIVASAN S





Bihar
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

Department of Aeronautical Engineering

Certificate of Participation

This acknowledges that

ASHLIN KUMAR
U16AS010

Has undertaken 30 hours course on "ARTIFICIAL INTELLIGENCE" Organized by
DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 11.10.2019 TO 18.10.2019.

M. M. Karthik

MR. M. KARTHIK, PROGRAM
COORDINATOR

M. S. Singh

HOD/AERO

Participant Feedback Form

(On course completion)

Date 18/10/2019

Course Artificial Intelligence

Student Name (optional) Vignesh T

Student ID (optional) U16AE006

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 comments.

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?

Text material may be provided.



Bharath

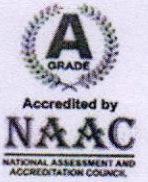
INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



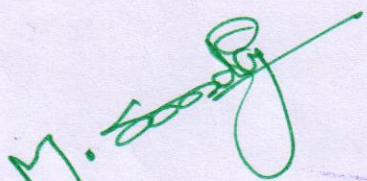
Dr. M.Sundararaj M.E., Ph.D
Head

29/10/2019

F.No.Aero/Events-1.1/Value Added Course/2019

CIRCULAR

Department of Aeronautical Engineering is organising a Value Added Course on 'Product Design Using Value Engineering' to be delivered by the eminent Industry expert and speaker, **Mr. Silambarasan, Quest Aerospace, Bangalore** on **30/10/2019** for the students of B.Tech (Aeronautical & Aerospace Engineering). All the students are hereby instructed to be available for the said course.


HOD-AED,
Department of Aeronautical Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Sembur, Chennai-600 073. INDIA



Bharath

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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



Department of Aeronautical Engineering

Value Added Course

Product Design Using Value Engineering

Objective: The objective of the course is to introduce students the product design cycle of engineering components and system.

Course Co-ordinator: Mr.N.Elumalai

COURSE LAYOUT

SNo	Date	Course Content	Duration	Instructor
1	30/10/2019 (FN)	Introduction to product design and development	3 Hours	Mr.Silambarasan,Quest Aerospace, Bangalore
2	02/11/2019 (FN)	Product design steps and product analysis	3 Hours	Mr.Silambarasan,Quest Aerospace, Bangalore
3	02/11/2019 (AN)	Course on profit consideration	3 Hours	Mr.Silambarasan,Quest Aerospace, Bangalore
4	03/11/2019 (FN)	Value engineering (history, concept and definitions)	3 Hours	Mr.Silambarasan,Quest Aerospace, Bangalore
5	03/11/2019 (AN)	Value engineering vs Cost cutting	3 Hours	Mr.Silambarasan,Quest Aerospace, Bangalore
6	09/11/2019 (FN)	Creative thinking, Problem identification and VEJP	3 Hours	Mr.Silambarasan,Quest Aerospace, Bangalore
7	09/11/2019 (AN)	Types of product functions , Functional analysis	3 Hours	Mr.Silambarasan,Quest Aerospace, Bangalore
8	10/11/2019 (FN)	Functional Analysis System Technique (FAST)	3 Hours	Mr.Silambarasan,Quest Aerospace, Bangalore
9	10/11/2019 (AN)	Function-cost relationship I & II, VE applications in product design, Case study I & II	3 Hours	Mr.Silambarasan,Quest Aerospace, Bangalore
10	16/11/2019 (FN)	VE tools and techniques I & II, Behavioral roadblocks, VE Success stories I & II	3 Hours	Mr.Silambarasan,Quest Aerospace, Bangalore

BOOKS AND REFERENCES

1	Lawrence D. Miles; "Techniques of Value Analysis and Engineering", 2nd Edition, McGraw-Hill Book Company, Inc. New York
2	Larry W. Zimmerman, Glen D. Hart; "Value Engineering", Reprint 1999, CBS Publishers and Distributors, New Delhi
3	A. K. Chitale and R. C. Gupta, "Product Design and Manufacturing", 3rd Edition, Prentice-Hall of India





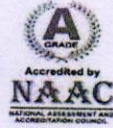
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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



Department of Aeronautical Engineering

Value Added Course

Course on Product Design Using Value Engineering

List of students Registered on 30/10/2019

SNO	Reg NO	Name of the Student
1	U16AE001	SARKAR ABHIJIT
2	U16AE002	MOHAMMED FAHATH M S
3	U16AE003	ANTANIESKEMIN Y
4	U16AE004	KEERTHIVASAN J
5	U16AE005	CHARANKUMAR A
6	U16AE006	VIGNESH T
7	U16AE007	BOYANAPALLE SRINIVAS ANSHU BAB
8	U16AE008	SEELAM DURGA LAKSHMI PRIYANKA
9	U16AE009	LOKESH B
10	U16AE010	KANDULA THRINATH
11	U16AE011	KODAVALURU SAI BHAVANA
12	U16AE012	UJJWAL KUMAR SINGH
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14	U16AE014	PRAKASH GUPTA
15	U16AE015	MOHANISH DHRUW
16	U16AE016	KAVIBHARATHI T
17	U16AE017	HARIHARAN K
18	U16AE018	K S GANESH
19	U16AE019	PUNITHAN A
20	U16AE020	JANARTHANAN K
21	U16AE021	MANDALA HARI
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23	U16AE023	NATARAJAN T M
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30	U16AE030	MONIKA VEMAGIRI
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33	U16AE033	DEKKA SAI VENKATA SURYA AJAY KUMAR
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39	U16AE039	MULAKA BHAVANA
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42	U16AE042	ADIGARLA BHANU PRASAD
43	U16AE043	SRI HARSHA VARMA MANTHENA
44	U16AE044	GOGULAMANDA VEERA SWAMY RAJIV
45	U16AE045	HURASU VENUH
46	U16AE046	PRABAKARAN P
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51	U16AE503	RAJAGOPALAN NARAYANAN
52	U16AE504	MOHAMMED ARSHAD SAMEER F
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54	U16AE702	GANJI GOWTHAM
55	U16AE703	GADUPUTI BALAJI
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65	U16AS009	PUNITHAN A
66	U16AS010	ASHLIN KUMAR
67	U16AS501	KURAL ARASU L
68	U16AS502	DONTHA ADITYA
69	U17AE011	MANJUNADH ESHWAR P
70	U17AE012	PEREZHIL MUGUNDAN D
71	U17AE013	CHITTI SAI SRAVAN KUMAR
72	U17AE014	VALLALA MUKESH GOUD
73	U17AS016	GUNJA LALITHA MAHESWARI
74	U17AS017	WALTER JESUDOSS DEVARAM S
75	U17AS018	KADIYAM MANIKANTA RAGHU
76	U17AS019	TASLEEMAA K





Shriharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

Department of Aeronautical Engineering

Certificate of Participation

This acknowledges that

VIGNESH T
U16AE006

Has undertaken 30 hours course on "PRODUCT DESIGN USING VALUE
ENGINEERING" Organized by DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER
FROM 30.10.2019 TO 16.11.2019.

MR. N. ELUMALAI, PROGRAM
COORDINATOR

HOD/AERO

Participant Feedback Form

(On course completion)

Date 16/11/2019

Course Product Design Using Value Engineering

Student Name (optional) K.S. Ganes h.

Student ID (optional) V16 AE 018

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?

.....

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?

.....



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

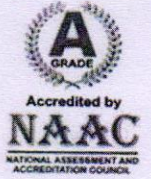
(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)

(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



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

27/11/2019

F.No.Aero/Events-1.1/Value Added Course/2019

CIRCULAR

Department of Aeronautical Engineering is organising a Value Added Course on 'NOISE MANAGEMENT AND CONTROL' to be delivered by the eminent Industry expert and speaker **Mr. S. Ramesh, Junior Engineer, Air India** on **28/11/2019** for the students of B.Tech (Aeronautical & Aerospace Engineering). All the students are hereby instructed to be available for the said course.

HOD-Aero
HOD,

Department of Aeronautical Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 4 of UGC Act, 1956)
Selaiyur, Chennai-600 075, India



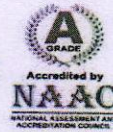
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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



Department of Aeronautical Engineering

Value Added Course

NOISE MANAGEMENT AND CONTROL

Objective :

This course is intended for all those who want to understand noise, its control, and its management. Thus, the course is open to students of engineering and science, and also to all those who from the industry and research organizations – who are working in area of sound, NVH and acoustics

Course Co-ordinator: Mr. M. Ramakrishna

COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	28/11/2019 (FN)	Intro and terminology	3 Hours	Mr.S.Ramesh, Junior Engineer Air India
2	30/11/2019 (FN)	Concept Review	3 Hours	Mr.S.Ramesh, Junior Engineer Air India
3	30/11/2019 (AN)	Wave Mechanics	3 Hours	Mr.S.Ramesh, Junior Engineer Air India
4	1/12/2019 (FN)	1-D Waves	3 Hours	Mr.S.Ramesh, Junior Engineer Air India
5	1/12/2019 (AN)	Spherical Waves	3 Hours	Mr.S.Ramesh, Junior Engineer Air India
6	07/12/2019 (FN)	Noise Measurement	3 Hours	Mr.S.Ramesh, Junior Engineer Air India
7	07/12/2019 (AN)	Noise Sources	3 Hours	Mr.S.Ramesh, Junior Engineer Air India
8	08/12/2019 (FN)	Acoustic Criteria & Room Acoustic	3 Hours	Mr.S.Ramesh, Junior Engineer Air India
9	08/12/2019 (AN)	Room Acoustics & Silencer	3 Hours	Mr.S.Ramesh, Junior Engineer Air India
10	14/12/2019 (FN)	Silencers & Vibration Isolation	3 Hours	Mr.S.Ramesh, Junior Engineer Air India

BOOKS AND REFERENCES

1	Handbook of Noise and Vibration Control ditor(s):Malcolm J. Crocker First published:19 September 2007 Print ISBN:9780471395997 Online ISBN:9780470209707DOI:10.1002/9780470209707 Copyright © 2007 John Wiley & Sons, Inc.
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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



Department of Aeronautical Engineering

Value Added Course

Course on NOISE MANAGEMENT AND CONTROL

List of students Registered on 28/11/2019

SNO	Reg NO	Name of the Student
1	U16AE004	KEERTHIVASAN J
2	U16AE005	CHARANKUMAR A
3	U16AE006	VIGNESH T
4	U16AE007	BOYANAPALLE SRINIVAS ANSHU BAB
5	U16AE009	LOKESH B
6	U16AE010	KANDULA THRINATH
7	U16AE011	KODAVALURU SAI BHAVANA
8	U16AE012	UJJWAL KUMAR SINGH
9	U16AE013	SARATH KUMAR S
10	U16AE014	PRAKASH GUPTA
11	U16AE015	MOHANISH DHRUW
12	U16AE016	KAVIBHARATHI T
13	U16AE017	HARIHARAN K
14	U16AE018	K S GANESH
15	U16AE019	PUNITHAN A
16	U16AE020	JANARTHANAN K
17	U16AE021	MANDALA HARI
18	U16AE022	VIGNESH A
19	U16AE029	GUDIPATI SIVAKUMAR
20	U16AE030	MONIKA VEMAGIRI
21	U16AE031	D VINOD RAO
22	U16AE032	ARUN R
23	U16AE033	DEKKA SAI VENKATA SURYA AJAY KUMAR
24	U16AE034	SHAKEEL AKTHAR M
25	U16AE035	ADAPALA ANIL KUMAR
26	U16AE036	GHANTASALA PARASU RAJU
27	U16AE037	K GAMANA
28	U16AE038	GORIPARTHI PRATHYUSHA
29	U16AE039	MULAKA BHAVANA
30	U16AE040	THULLIMALLI RATNA KISHORE
31	U16AE041	LAKSHMI NARASIMHAN V
32	U16AE042	ADIGARLA BHANU PRASAD
33	U16AE043	SRI HARSHA VARMA MANTHENA
34	U16AE044	GOGULAMANDA VEERA SWAMY RAJIV

35	U16AE045	HURASU VENUH
36	U16AE046	PRABAKARAN P
37	U16AE047	ZAHID AYOOB
38	U16AE048	PASUPULETI PUJITHA
39	U16AE501	AKASH V
40	U16AE502	RIYO PAULDUVIN M
41	U16AE503	RAJAGOPALAN NARAYANAN
42	U16AE504	MOHAMMED ARSHAD SAMEER F
43	U16AE701	SHAIK GAFOOR
44	U16AE703	GADUPUTI BALAJI
45	U16AE704	MEDIDARAJU VIGNENKUMAR RAJU
46	U16AS001	SARATH KUMAR S
47	U16AS002	KESAVARAJU K V
48	U16AS006	VISHAVAK P S
49	U16AS007	RUMADE SHUBHAM NARAYAN
50	U16AS008	GONDAL PRANAY GOPAL
51	U16AS009	PUNITHAN A
52	U16AS010	ASHLIN KUMAR
53	U16AS501	KURAL ARASU L
54	U16AS502	DONTHA ADITYA





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Department of Aeronautical Engineering

Certificate of Participation

This acknowledges that

LOKESH B
U16AE009

Has undertaken 30 hours course on "NOISE MANAGEMENT AND CONTROL" Organized
by DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 28.11.2019 TO 14.12.2019.

MR. M. RAMAKRISHNA, PROGRAM
COORDINATOR

HOD/AERO

Participant Feedback Form

(On course completion)

Date ..14/12/2019

Course *Nurse Management and Control*

Student Name (optional) *T. Vignesh*

Student ID (optional) *U16AE006*

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 comments*

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?

..... *—*



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



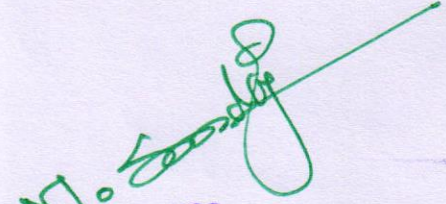
Dr. M.Sundararaj M.E., Ph.D
Head

22/01/2020

F.No.Aero/Events-1.1/Value Added Course/2020

CIRCULAR

Department of Aeronautical Engineering is organising a Value Added Course on "INTRODUCTION TO EXPERIMENTS IN FLIGHT" to be delivered by the eminent Industry expert and speaker, **Mr. Raja A, Design Engineer, Geometrics Pvt. Ltd.** on **24/01/2020** for the students of B.Tech (Aeronautical & Aerospace Engineering). All the students are hereby instructed to be available for the said course.


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



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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



Department of Aeronautical Engineering

Value Added Course

INTRODUCTION TO EXPERIMENTS IN FLIGHT

Objective :

To conduct experiments in airplane to determine different parameters. This course will also help in creating a background to design an experiment to determine a specific parameter.

Course Co-ordinator: Mr. E. Mahavishnu

COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	24/01/2020 (FN)	Planning of Experiment Weighment of Aircraft Cruise Flight Cruise Experiment	3 Hours	Mr.Raja A ,Design Engineer, Geometrics Pvt. Ltd.
2	27/01/2020 (FN)	Cruise Experiment Climbing Flight Neutral Point(stick fixed)	3 Hours	Mr.Raja A ,Design Engineer, Geometrics Pvt. Ltd.
3	27/01/2020 (AN)	Data Acquisition using MEMS devices	3 Hours	Mr.Raja A ,Design Engineer, Geometrics Pvt. Ltd.
4	28/01/2020 (FN)	Neutral Point Experiment Maneuvering Point (stick fixed) Maneuvering Point Experiment	3 Hours	Mr.Raja A ,Design Engineer, Geometrics Pvt. Ltd.
5	28/01/2020 (AN)	Steady Coordinated turn	3 Hours	Mr.Raja A ,Design Engineer, Geometrics Pvt. Ltd.
6	29/01/2020 (FN)	Lateral Stability and Control Lateral-Stability	3 Hours	Mr.Raja A ,Design Engineer, Geometrics Pvt. Ltd.
7	29/01/2020 (AN)	Directional Stability and Control Directional Stability and Control Experiments	3 Hours	Mr.Raja A ,Design Engineer, Geometrics Pvt. Ltd.
8	03/02/2020 (FN)	Aerodynamic Parameter Estimation using Least Squares Method	3 Hours	Mr.Raja A ,Design Engineer, Geometrics Pvt. Ltd.
9	03/02/2020 (AN)	Aerodynamic Parameter Estimation using Delta Method	3 Hours	Mr.Raja A ,Design Engineer, Geometrics Pvt. Ltd.
10	04/02/2020 (FN)	Aerodynamic Parameter Estimation using Delta Method	3 Hours	Mr.Raja A ,Design Engineer, Geometrics Pvt. Ltd.

BOOKS AND REFERENCES

1 Introduction to Flight By - Anderson





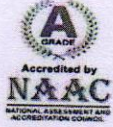
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Website : www.bharathuniv.ac.in



Department of Aeronautical Engineering

Value Added Course

Course on INTRODUCTION TO EXPERIMENTS IN FLIGHT

List of students Registered on 24/01/2020

SNO	Reg NO	Name of the Student
1	U16AE004	KEERTHIVASAN J
2	U16AE005	CHARANKUMAR A
3	U16AE006	VIGNESH T
4	U16AE007	BOYANAPALLE SRINIVAS ANSHU BAB
5	U16AE008	SEELAM DURGA LAKSHMI PRIYANKA
6	U16AE009	LOKESH B
7	U16AE010	KANDULA THRINATH
8	U16AE011	KODAVALURU SAI BHAVANA
9	U16AE019	PUNITHAN A
10	U16AE020	JANARTHANAN K
11	U16AE021	MANDALA HARI
12	U16AE022	VIGNESH A
13	U16AE023	NATARAJAN T M
14	U16AE024	SANTHOSH KUMAR SAHU
15	U16AE025	VAGGALA MAMATHA SRI
16	U16AE026	KESAVARAJU K V
17	U16AE027	GOLLA GOPAL
18	U16AE028	MUHUNTHANI B
19	U16AE029	GUDIPATI SIVAKUMAR
20	U16AE030	MONIKA VEMAGIRI
21	U16AE031	D VINOD RAO
22	U16AE032	ARUN R
23	U16AE033	DEKKA SAI VENKATA SURYA AJAY KUMAR
24	U16AE034	SHAKEEL AKTHAR M
25	U16AE035	ADAPALA ANIL KUMAR
26	U16AE036	GHANTASALA PARASU RAJU
27	U16AE037	K GAMANA
28	U16AE038	GORIPARTHI PRATHYUSHA
29	U16AE039	MULAKA BHAVANA
30	U16AE040	THULLIMALLI RATNA KISHORE
31	U16AE041	LAKSHMI NARASIMHAN V
32	U16AE042	ADIGARLA BHANU PRASAD
33	U16AE043	SRI HARSHA VARMA MANTHENA

34	U16AE044	GOGULAMANDA VEERA SWAMY RAJIV
35	U16AE045	HURASU VENUH
36	U16AE046	PRABAKARAN P
37	U16AE047	ZAHID AYOOB
38	U16AE048	PASUPULETI PUJITHA
39	U16AE501	AKASH V
40	U16AE502	RIYO PAULDUVIN M
41	U16AE503	RAJAGOPALAN NARAYANAN
42	U16AE504	MOHAMMED ARSHAD SAMEER F
43	U16AE701	SHAIK GAFOOR
44	U16AE704	MEDIDARAJU VIGNENKUMAR RAJU
45	U16AS001	SARATH KUMAR S
46	U16AS002	KESAVARAJU K V
47	U16AS006	VISHAVAK P S
48	U16AS007	RUMADE SHUBHAM NARAYAN
49	U16AS008	GONDAL PRANAY GOPAL
50	U16AS009	PUNITHAN A
51	U16AS010	ASHLIN KUMAR
52	U16AS501	KURAL ARASU L
53	U16AS502	DONTHA ADITYA
54	U17AE011	MANJUNADH ESHWAR P
55	U17AE012	PEREZHIL MUGUNDAN D
56	U17AE013	CHITTI SAI SRAVAN KUMAR
57	U17AE014	VALLALA MUKESH GOUD
58	U17AS018	KADIYAM MANIKANTA RAGHU
59	U17AS019	TASLEEMAA K





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Department of Aeronautical Engineering

Certificate of Participation

This acknowledges that

K GAMMANA
U16AE037

Has undertaken 30 hours course on "INTRODUCTION TO EXPERIMENTS IN FLIGHT"
Organized by DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 24.01.2020 TO
04.02.2020.

MR. E. MAHAVISHNU, PROGRAM
COORDINATOR

HOD/AERO

Participant Feedback Form

(On course completion)

Date 04/02/2020

Course Introduction to Experiments in Flight

Student Name (optional) K. Gamana

Student ID (optional) U16AE037

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?

The registration process was smooth

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 comment



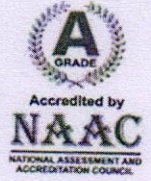
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Dr. M.Sundararaj M.E., Ph.D
Head

28/02/2020

F.No.Aero/Events-1.1/Value Added Course/2020

CIRCULAR

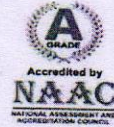
Department of Aeronautical Engineering is organising a Value Added Course on "Lighter Than Air Systems" to be delivered by the eminent Industry expert and speaker, **Mr. M. Ramkumar, Scientist ADA, Bangalore** on **02/03/2020** for the students of B.Tech (Aeronautical & Aerospace Engineering). All the students are hereby instructed to be available for the said course.

HOD-Aero

Department of Aeronautical Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U.S. 3 of UGC Act, 1956)
Selayur, Chennai-600 073, INDIA



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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING
Website : www.bharathuniv.ac.in



Department of Aeronautical Engineering
Value Added Course
Lighter Than Air Systems

Objective :

To discuss in general the history of LTA systems and their configurations.
To understand the principles of aerostatics and their application in designing the airships and aerostats.
To know about the current challenges and future developments of lighter than air systems.

Course Co-ordinator: Mr. M. Karthik

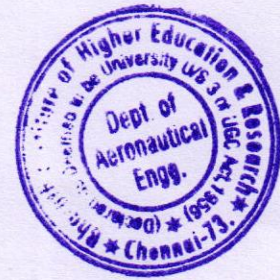
COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	02/03/2020 (AN)	Introduction to LTA systems, LTA gases, Types, Applications of Airships and their Components	3 Hours	Mr.M.Ramkumar, Scientist ADA, Bangalore
2	03/03/2020 (FN)	Tethered Aerostat Systems, Historical developments of LTA systems	3 Hours	Mr.M.Ramkumar, Scientist ADA, Bangalore
3	03/03/2020 (AN)	Overview of PADD, Remotely Controlled Airships, Autonomous Airships, Biomimetic Airships	3 Hours	Mr.M.Ramkumar, Scientist ADA, Bangalore
4	04/03/2020 (FN)	Introduction to Buoyancy, Basics Concepts of Aerostatics, Ballasting, weight-off and fuel weight recovery.	3 Hours	Mr.M.Ramkumar, Scientist ADA, Bangalore
5	04/03/2020 (AN)	Net Static Lift Estimations for Lighter than Air systems	3 Hours	Mr.M.Ramkumar, Scientist ADA, Bangalore
6	09/03/2020 (FN)	Effect of Super pressure, Atmospheric Temperature, Relative Humidity, Change in lift in gas purity, Change in lifting gas volume, Flight to lower ground elevation	3 Hours	Mr.M.Ramkumar, Scientist ADA, Bangalore
7	09/03/2020 (AN)	Pressure height calculations, pressure height for other LTA vehicles.	3 Hours	Mr.M.Ramkumar, Scientist ADA, Bangalore
8	10/03/2020 (FN)	Envelope materials	3 Hours	Mr.M.Ramkumar, Scientist ADA, Bangalore



9	10/03/2020 (AN)	Propulsion System for LTA systems	3 Hours	Mr.M.Ramkumar, Scientist ADA, Bangalore
10	11/03/2020 (FN)	Overview of Airship design methodology, Validation of Airship design methodology	3 Hours	Mr.M.Ramkumar, Scientist ADA, Bangalore

BOOKS AND REFERENCES	
1	Pant, R. S., Course Material for Design and Development of LTA systems, Curriculum Development Program, IIT Bombay, 2010.
2	Taylor, J. A., Principles of Aerostatics, The Theory of Lighter-Than-Air Aircraft, ISBN13:978-1-49481-053-5, 2014.
3	Khoury, G., Ed., Airship Technology, 2nd Edition, Cambridge Aerospace Series, Cambridge University Press, 2012.
4	Carichner, G. E., and Nicolai, L. M., Fundamentals of Aircraft and Airship Design, Volume 2 – Airship Design and Case Studies, AIAA Education Series, 2013.





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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY DEPARTMENT OF AERONAUTICAL ENGINEERING

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Department of Aeronautical Engineering

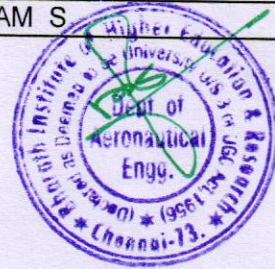
Value Added Course

Course on Lighter Than Air Systems

List of students Registered on 02/03/2020

SNO	Reg NO	Name of the Student
1	U16AE001	SARKAR ABHIJIT
2	U16AE002	MOHAMMED FAHATH M S
3	U16AE003	ANTANIESKEMIN Y
4	U16AE004	KEERTHIVASAN J
5	U16AE005	CHARANKUMAR A
6	U16AE006	VIGNESH T
7	U16AE007	BOYANAPALLE SRINIVAS ANSHU BAB
8	U16AE008	SEELAM DURGA LAKSHMI PRIYANKA
9	U16AE009	LOKESH B
10	U16AE010	KANDULA THRINATH
11	U16AE011	KODAVALURU SAI BHAVANA
12	U16AE012	UJJWAL KUMAR SINGH
13	U16AE013	SARATH KUMAR S
14	U16AE014	PRAKASH GUPTA
15	U16AE015	MOHANISH DHRUW
16	U16AE016	KAVIBHARATHI T
17	U16AE017	HARIHARAN K
18	U16AE018	K S GANESH
19	U16AE019	PUNITHAN A
20	U16AE020	JANARTHANAN K
21	U16AE021	MANDALA HARI
22	U16AE022	VIGNESH A
23	U16AE023	NATARAJAN T M
24	U16AE024	SANTHOSH KUMAR SAHU
25	U16AE025	VAGGALA MAMATHA SRI
26	U16AE026	KESAVARAJU K V
27	U16AE027	GOLLA GOPAL
28	U16AE028	MUHUNTHANI B
29	U16AE029	GUDIPATI SIVAKUMAR
30	U16AE030	MONIKA VEMAGIRI
31	U16AE031	D VINOD RAO
32	U16AE032	ARUN R
33	U16AE033	DEKKA SAI VENKATA SURYA AJAY KUMAR
34	U16AE034	SHAKEEL AKTHAR M

35	U16AE035	ADAPALA ANIL KUMAR
36	U16AE036	GHANTASALA PARASU RAJU
37	U16AE037	K GAMANA
38	U16AE038	GORIPARTHI PRATHYUSHA
39	U16AE039	MULAKA BHAVANA
40	U16AE041	LAKSHMI NARASIMHAN V
41	U16AE042	ADIGARLA BHANU PRASAD
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43	U16AE044	GOGULAMANDA VEERA SWAMY RAJIV
44	U16AE045	HURASU VENUH
45	U16AE046	PRABAKARAN P
46	U16AE047	ZAHID AYOOB
47	U16AE048	PASUPULETI PUJITHA
48	U16AE501	AKASH V
49	U16AE502	RIYO PAULDUVIN M
50	U16AE503	RAJAGOPALAN NARAYANAN
51	U16AE504	MOHAMMED ARSHAD SAMEER F
52	U16AE702	GANJI GOWTHAM
53	U16AE703	GADUPUTI BALAJI
54	U16AE704	MEDIDARAJU VIGNENKUMAR RAJU
55	U16AS001	SARATH KUMAR S
56	U16AS002	KESAVARAJU K V
57	U16AS003	GUDIPATI SIVAKUMAR
58	U16AS004	PRITHIVIRAJAN S M
59	U16AS005	PRASANNA PRAKASH J
60	U16AS006	VISHAVAK P S
61	U16AS007	RUMADE SHUBHAM NARAYAN
62	U16AS008	GONDAL PRANAY GOPAL
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65	U16AS501	KURAL ARASU L
66	U16AS502	DONTHA ADITYA
67	U17AE011	MANJUNADH ESHWAR P
68	U17AE012	PEREZHIL MUGUNDAN D
69	U17AE013	CHITTI SAI SRAVAN KUMAR
70	U17AE014	VALLALA MUKESH GOUD
71	U17AS016	GUNJA LALITHA MAHESWARI
72	U17AS017	WALTER JESUDOSS DEVARAM S





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Department of Aeronautical Engineering

Certificate of Participation

This acknowledges that

DEKKA SAI VENKATA SURYA AJAY KUMAR
U16AE033

Has undertaken 30 hours course on "LIGHTER THAN AIR SYSTEMS" Organized by
DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 02.03.2020 TO 11.03.2020.

M. M. Karthik

MR. M. KARTHIK, PROGRAM
COORDINATOR

M. S. Suryajay

HOD/AERO

Participant Feedback Form

(On course completion)

Date 11/03/2020

Course Lighter than Air Systems

Student Name (optional) K.S. Ganesh

Student ID (optional) U16AE018

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 comment

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 comment