



PSN College of Engineering and Technology (Autonomous)
Melathediyoor, Tirunelveli
(Approved by AICTE and Recognized by UGC Section 2 (f), 12 (B))
An ISO 9001:2015 Certified Institution
(Accredited by NAAC, Affiliated to Anna University, Chennai)
DEPARTMENT OF AERONAUTICAL ENGINEERING

Head of the Department 04634-279068

11-07-2022

PSNCET/AERO/21-22/VAC/02

To,
The Principal,
PSN CET.

Sub: Permission for conducting Value Added Course-Aeronautical Engineering-Reg

Respected sir,

I am writing this to inform you that our department has planned to conduct the value added course “**Hands On Training In Drone Technology**” from 25.07.2022. In this regard I request you to accord permission to conduct the course as per the autonomous regulation norms.

Thanking You,

Yeo
Dr. S. Suresh

S. Suresh
HOD/AERO



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DEPARTMENT OF AERONAUTICAL ENGINEERING

Head of the Department 04634-279068

11-07-2022

PSNCET/AERO/21-22/VAC/02

To,
All department Heads,
PSN CET.

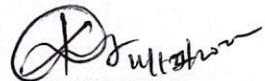
Sub: Hands On Training In Drone Technology Value Added Course offered by Department of Aeronautical Engineering -Reg

Dear Sir,

The Aeronautical Engineering department has planned to conduct the value added courses on hands on training in drone technology for the academic year 2021-2022 on 25-07-2022. In this regard I request you to circulate this among your students and make use of it. Also encourage your department students to register for this course with the respective course coordinators.

Course Coordinator: Mr.K.Esakki Muthu, Assistant Professor/Aero
Last Date for Registration: 20-07-2022

Thanking You,



HOD/AERO

Copy To,
1. The Principal-PSNCET
2. IQAC-PSNCET
3. Department File
4. Main Notice Board.



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25-07-2022

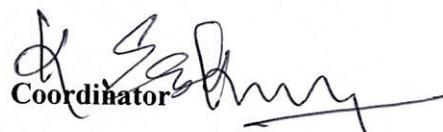
LIST OF STUDENTS REGISTERED

Name of the Course: Hands On Training In Drone Technology

Name of the Course Coordinator: Mr.K.Esakki Muthu, AP/AERO

S.NO	REG.NO	NAME OF THE STUDENTS
1.	2001002	ANNE JOY ABIGAIL.A.J
2.	2001001	ANJU B L
3.	2001035	NANDHINI D
4.	2001009	DHIVYA R
5.	2001010	DUSHYANTH M
6.	2001011	ESAKKIRAJA M
7.	2001012	GURUNATHAN R
8.	2001014	HARISH R
9.	2001017	JEWIN SHYAM J
10.	2001014	HARISH R
11.	2001020	KARTHIKA IKUMAR M
12.	2001021	KARTHIKEYAN P
13.	2001022	KAYATHRI M
14.	2001025	MANGAIYARKARASI S
15.	2001026	MANI E
16.	2001033	MOORTHIPANDIYAN M
17.	2001034	MURUGAPERUMAL R
18.	2001038	PRABAHRAN C
19.	2001036	PANDIYARAJ B
20.	2001040	PREMKUMAR M
21.	2001044	SANTHYALAKSHMI S
22.	2001045	SATHIYAMOORTHY D
23.	2001048	SHOBANA R
24.	2001055	VIJUMON R
25.	2001052	THANGARAJA MANIKANDAN T
26.	2001054	VELUMANI V
27.	2001301	W.DANIEL
28.	2001303	R.PAULRAJ
29.	2001304	D.RAJESH
30.	2001305	V.RAMASUBRAMANIAN
31.	1901001	ADHIITHYA P
32.	1901002	AJAY KUMAR S
33.	1901004	ANANTHI M
34.	1901018	KEERTHANA R
35.	1901020	LAVANYA B
36.	1901022	MANIMALA T
37.	1901031	MAYILRAJ M
38.	1901034	MUNEESWARI M
39.	1901038	NIRANJALE R

40.	1901006	BALASUBRAMANIAN M
41.	1901009	DINESH KUMAR K
42.	1901012	IVANCHALINSINTHIYA E
43.	1901013	JEGATHEESWARI M
44.	1901014	JEYADEVI K
45.	1901017	KARTHICK S
46.	1901021	MADHANKUMAR R
47.	1901025	MARI SELVAM V
48.	1901045	RAJ A
49.	1901046	RAJALINGAM K
50.	1901047	RAJKUMAR R
51.	1901048	RAJMOHAN S
52.	1901051	ROHITH K
53.	1901053	SAKTHIVEL S
54.	1901065	SURIYA C
55.	1901066	SURYA M
56.	1901067	SURYA S
57.	1901070	VAIRAVADEVI M
58.	1901071	VASANTH D
59.	1901072	VASANTH P
60.	1901075	VENU GOPAL S


Coordinator


HOD/AERO



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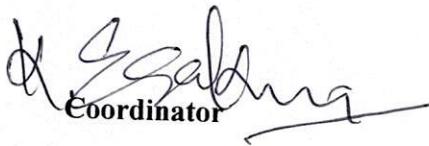
ATTENDANCE

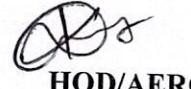
Name of the Course: Hands On Training In Drone Technology

Name of the Course Coordinator: Mr.K.Esakki Muthu,AP/AERO

S.NO	REG.NO	NAME OF THE STUDENTS	25.07.2022	26.07.2022	27.07.2022	28.07.2022	29.07.2022
1.	2001002	ANNE JOY ABIGAIL.A.J	A.J. Joy 25/7/22	A.J. Joy 26/7/22	A.J. Joy 26/7/22	A.J. Joy 26/7/22	A.J. Joy 26/7/22
2.	2001001	ANJU B L	B.L. Anju 25/7/22	B.L. Anju 26/7/22	B.L. Anju 26/7/22	B.L. Anju 26/7/22	B.L. Anju 26/7/22
3.	2001035	NANDHINI D	D. Nandini 25/7/22	D. Nandini 26/7/22	D. Nandini 27/7/22	D. Nandini 28/7/22	D. Nandini 29/7/22
4.	2001009	DHIVYA R	R. Dhivya 25/7/22	R. Dhivya 26/7/22	R. Dhivya 27/7/22	R. Dhivya 28/7/22	R. Dhivya 29/7/22
5.	2001010	DUSHYANTH M	Dushyanth 25/7/22	Dushyanth 26/7/22	Dushyanth 27/7/22	Dushyanth 28/7/22	Dushyanth 29/7/22
6.	2001011	ESAKKIRAJA M	Esakkiraja 25-7-22	Esakkiraja 26-7-22	Esakkiraja 27-7-22	Esakkiraja 28-7-22	Esakkiraja 29-7-22
7.	2001012	GURUNATHAN R	R.Gurunathan 25/7/22	R.Gurunathan 26/7/22	R.Gurunathan 27/7/22	R.Gurunathan 28/7/22	R.Gurunathan 29/7/22
8.	2001014	HARISH R	H.R. Harish 25/7/22	H.R. Harish 26/7/22	H.R. Harish 27/7/22	H.R. Harish 28/7/22	H.R. Harish 29/7/22
9.	2001017	JEWIN SHYAM J	J.Shyam 25-7-22	J.Shyam 26-7-22	J.Shyam 27-7-22	J.Shyam 28-7-22	J.Shyam 29-7-22
10.	2001014	HARISH R	H.R. Harish 25/7/22	H.R. Harish 26/7/22	H.R. Harish 27/7/22	H.R. Harish 28/7/22	H.R. Harish 29/7/22
11.	2001020	KARTHIKAIKUMAR M	Karthikaikumar 25/7/22	Karthikaikumar 26/7/22	Karthikaikumar 27/7/22	Karthikaikumar 28/7/22	Karthikaikumar 29/7/22
12.	2001021	KARTHIKEYAN P	Karthikeyan 25/7/22	Karthikeyan 26/7/22	Karthikeyan 27/7/22	Karthikeyan 28/7/22	Karthikeyan 29/7/22
13.	2001022	KAYATHRI M	M.Kayathri 25/7/22	M.Kayathri 26/7/22	M.Kayathri 27/7/22	M.Kayathri 28/7/22	M.Kayathri 29/7/22
14.	2001025	MANGAIYARKARASI S	S.Mangaiyarkarasi 25/7/22	S.Mangaiyarkarasi 26/7/22	S.Mangaiyarkarasi 27/7/22	S.Mangaiyarkarasi 28/7/22	S.Mangaiyarkarasi 29/7/22
15.	2001026	MANI E	Mani 25/7/22	Mani 26/7/22	Mani 27/7/22	Mani 28/7/22	Mani 29/7/22
16.	2001033	MOORTHIPANDIYAN M	M.Moorthipandiyan 25/7/22	M.Moorthipandiyan 26/7/22	M.Moorthipandiyan 27/7/22	M.Moorthipandiyan 28/7/22	M.Moorthipandiyan 29/7/22
17.	2001034	MURUGAPERUMAL R	R.Murugaperumal 25/7/22	R.Murugaperumal 26/7/22	R.Murugaperumal 27/7/22	R.Murugaperumal 28/7/22	R.Murugaperumal 29/7/22
18.	2001038	PRABAHARAN C	C. Prabhaharan 25/7/22	C. Prabhaharan 26/7/22	C. Prabhaharan 27/7/22	C. Prabhaharan 28/7/22	C. Prabhaharan 29/7/22
19.	2001036	PANDIYARAJ B	B.Pandiyan 25/7/22	B.Pandiyan 26/7/22	B.Pandiyan 27/7/22	B.Pandiyan 28/7/22	B.Pandiyan 29/7/22
20.	2001040	PREMKUMAR M	M.Premkumar 25/7/22	M.Premkumar 26/7/22	M.Premkumar 27/7/22	M.Premkumar 28/7/22	M.Premkumar 29/7/22
21.	2001044	SANTHYALAKSHMI S	S.Lakshmi 25/7/22	S.Lakshmi 26/7/22	S.Lakshmi 27/7/22	S.Lakshmi 28/7/22	S.Lakshmi 29/7/22
22.	2001045	SATHIYAMOORTHY D	D.Sathyamoorthy 25/7/22	D.Sathyamoorthy 26/7/22	D.Sathyamoorthy 27/7/22	D.Sathyamoorthy 28/7/22	D.Sathyamoorthy 29/7/22
23.	2001048	SHOBANA R	R.Shobana 25/7/22	R.Shobana 26/7/22	R.Shobana 27/7/22	R.Shobana 28/7/22	R.Shobana 29/7/22
24.	2001055	VIJUMON R	R.Vijumon 25/7/22	R.Vijumon 26/7/22	R.Vijumon 27/7/22	R.Vijumon 28/7/22	R.Vijumon 29/7/22
25.	2001052	THANGARAJA MANIKANDAN T	T.Thangaraja 25.7.22	T.Thangaraja 26.7.22	T.Thangaraja 27.7.22	T.Thangaraja 28.7.22	T.Thangaraja 29.7.22

26.	2001054	VELUMANI V	V. Velu 25/7	V. Velu 26/7	V. Velu 27/7	V. Velu 28/7	V. Velu 29/7
27.	2001301	W.DANIEL	W. Daniel 25/7/22	W. Daniel 26/7/22	W. Daniel 27/7/22	W. Daniel 28/7/22	W. Daniel 29/7/22
28.	2001303	R.PAULRAJ	R. Paul 25/7/22	R. Paul 26/7/22	R. Paul 27/7/22	R. Paul 28/7/22	R. Paul 29/7/22
29.	2001304	D.RAJESH	D. Rajesh 25/7/22	D. Rajesh 26/7/22	D. Rajesh 27/7/22	D. Rajesh 28/7/22	D. Rajesh 29/7/22
30.	2001305	V.RAMASUBRAMANIAN	V. Ramasubramanian 25/7/22	V. Ramasubramanian 26/7/22	V. Ramasubramanian 27/7/22	V. Ramasubramanian 28/7/22	V. Ramasubramanian 29/7/22
31.	1901001	ADHITHYA P	Adhithya 25/7	Adhithya 26/7	Adhithya 27/7	Adhithya 28/7	Adhithya 29/7
32.	1901002	AJAY KUMAR S	Ajay Kumar S 25/7	Ajay Kumar S 26/7	Ajay Kumar S 27/7	Ajay Kumar S 28/7	Ajay Kumar S 29/7
33.	1901004	ANANTHI M	Ananthi M 25/7	Ananthi M 26/7	Ananthi M 27/7	Ananthi M 28/7	Ananthi M 29/7
34.	1901018	KEERTHANA R	Keerthana R 25/7/22	Keerthana R 26/7/22	Keerthana R 27/7/22	Keerthana R 28/7/22	Keerthana R 29/7/22
35.	1901020	LAVANYA B	Lavanya B 25/7	Lavanya B 26/7	Lavanya B 27/7	Lavanya B 28/7	Lavanya B 29/7
36.	1901022	MANIMALA T	Manimala T 25/7/22	Manimala T 26/7/22	Manimala T 27/7/22	Manimala T 28/7/22	Manimala T 29/7/22
37.	1901031	MAYILRAJ M	Mayilraj M 25/7	Mayilraj M 26/7	Mayilraj M 27/7	Mayilraj M 28/7	Mayilraj M 29/7
38.	1901034	MUNEESWARI M	Muneeswari M 25/7	Muneeswari M 26/7	Muneeswari M 27/7	Muneeswari M 28/7	Muneeswari M 29/7
39.	1901038	NIRANJALE R	Niranjale R 25/7	Niranjale R 26/7	Niranjale R 27/7	Niranjale R 28/7	Niranjale R 29/7
40.	1901006	BALASUBRAMANIAN M	Balasubramanian M 25/7	Balasubramanian M 26/7	Balasubramanian M 27/7	Balasubramanian M 28/7	Balasubramanian M 29/7
41.	1901009	DINESH KUMAR K	Dinesh Kumar K 25/7	Dinesh Kumar K 26/7	Dinesh Kumar K 27/7	Dinesh Kumar K 28/7	Dinesh Kumar K 29/7
42.	1901012	IVANCHALINSINTHIYA E	IVanchalinsinthiya E 25/7/22	IVanchalinsinthiya E 26/7/22	IVanchalinsinthiya E 27/7/22	IVanchalinsinthiya E 28/7/22	IVanchalinsinthiya E 29/7/22
43.	1901013	JEGATHEESWARI M	Jegatheeswari M 25/7	Jegatheeswari M 26/7	Jegatheeswari M 27/7	Jegatheeswari M 28/7	Jegatheeswari M 29/7
44.	1901014	JEYADEVI K	Jeyadevi K 25/7/22	Jeyadevi K 26/7/22	Jeyadevi K 27/7/22	Jeyadevi K 28/7/22	Jeyadevi K 29/7/22
45.	1901017	KARTHICK S	Karthick S 25/7	Karthick S 26/7	Karthick S 27/7	Karthick S 28/7	Karthick S 29/7
46.	1901021	MADHANKUMAR R	Madhankumar R 25/7	Madhankumar R 26/7	Madhankumar R 27/7	Madhankumar R 28/7	Madhankumar R 29/7
47.	1901025	MARI SELVAM V	Mari Selvam V 25/7	Mari Selvam V 26/7	Mari Selvam V 27/7	Mari Selvam V 28/7	Mari Selvam V 29/7
48.	1901045	RAJA	Raja 25/7	Raja 26/7	Raja 27/7	Raja 28/7	Raja 29/7
49.	1901046	RAJALINGAM K	Rajalingam K 25/7	Rajalingam K 26/7	Rajalingam K 27/7	Rajalingam K 28/7	Rajalingam K 29/7
50.	1901047	RAJKUMAR R	Rajkumar R 25/7	Rajkumar R 26/7	Rajkumar R 27/7	Rajkumar R 28/7	Rajkumar R 29/7
51.	1901048	RAJMOHAN S	Rajmohan S 25/7	Rajmohan S 26/7	Rajmohan S 27/7	Rajmohan S 28/7	Rajmohan S 29/7
52.	1901051	ROHITH K	Rohith K 25/7	Rohith K 26/7	Rohith K 27/7	Rohith K 28/7	Rohith K 29/7
53.	1901053	SAKTHIVEL S	Sakthivel S 25/7/22	Sakthivel S 26/7/22	Sakthivel S 27/7/22	Sakthivel S 28/7/22	Sakthivel S 29/7/22
54.	1901065	SURIYA C	Suriya C 25/7/22	Suriya C 26/7/22	Suriya C 27/7/22	Suriya C 28/7/22	Suriya C 29/7/22
55.	1901066	SURYA M	Surya M 25/7/22	Surya M 26/7/22	Surya M 27/7/22	Surya M 28/7/22	Surya M 29/7/22
56.	1901067	SURYA S	Surya S 25/7/22	Surya S 26/7/22	Surya S 27/7/22	Surya S 28/7/22	Surya S 29/7/22
57.	1901070	VAIRAVADEVI M	Vairavadevi M 25/7/22	Vairavadevi M 26/7/22	Vairavadevi M 27/7/22	Vairavadevi M 28/7/22	Vairavadevi M 29/7/22
58.	1901071	VASANTH D	Vasanth D 25/7/22	Vasanth D 26/7/22	Vasanth D 27/7/22	Vasanth D 28/7/22	Vasanth D 29/7/22
59.	1901072	VASANTH P	Vasanth P 25/7/22	Vasanth P 26/7/22	Vasanth P 27/7/22	Vasanth P 28/7/22	Vasanth P 29/7/22
60.	1901075	VENU GOPAL S	Venu Gopal S 25/7/22	Venu Gopal S 26/7/22	Venu Gopal S 27/7/22	Venu Gopal S 28/7/22	Venu Gopal S 29/7/22


Coordinator


HOD/AERO



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SYLLABUS

HANDS ON TRAINING IN DRONE TECHNOLOGY

THEORY

History of UAV –classification —Unmanned Aircraft Systems- models and prototypes – System Composition-applications-Design and Selection of the System- Aerodynamics and Airframe Configurations- Characteristics of Aircraft Types- Design Standards and Regulatory Aspects- Autopilot – AGL-pressure sensors-servos-accelerometer –gyros-actuators- power supply-processor, integration, installation, configuration, and testing

TOTAL HOURS:30 HOURS


Coordinator


HOD/AERO

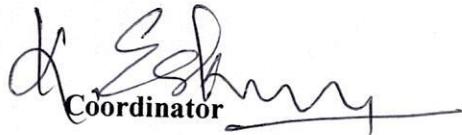


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Schedule

Name of the Course: Hands On Training In Drone Technology
Name of the Course Coordinator: Mr.K.Esakki Muthu, AP/AERO

Date	Hour 1	Hour 2	Hour 3	LUNCH BREAK	Hour 4	Hour 5	Hour 6
	(09.30 - 10.30AM)	(10.30 - 11.30AM)	(11.30AM-12.30PM)		(01.30-2.30PM)	(02.30-3.30PM)	(03.30-4.30PM)
25.07.2022	History Of UAV, Classification	Introduction To Unmanned Aircraft Systems, Models And Prototypes			System Composition, Applications	Anatomy Of Multi Rotor.	
26.07.2022	Design And Selection Of The System				Aerodynamics And Airframe Configurations		
27.07.2022	Characteristics Of Aircraft Types	Design Standards And Regulatory Aspects			Autopilot	AGL And Pressure Sensors	
28.07.2022	Servos, Accelerometer	Gyros-Actuators-			Power Supply-Processor, Integration		
29.07.2022	Installation				Configuration, And Testing		


Coordinator


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PLAN OF DELIVERY OF COURSE CONTENT

Name of the Course: Hands On Training In Drone Technology

Theory:16hrs

Practical :24hrs

S.NO	LIST OF CONTENTS	NO OF HOURS
1.	History Of UAV,Classification	3Hours
2.	Unmanned Aircraft Systems,Models And Prototypes	3Hours
3.	AGL And Pressure Sensors	3Hours
4.	Aerodynamics And Airframe Configurations	3Hours
5.	UAV designing	3Hours
6.	Simulation training	3Hours
7.	Component selection	3Hours
8.	Built drone using KK 2.1.5 , flight controller	3Hours
9.	Drone GCS(Ground control station)operation	3Hours
10.	Disassembly	3Hours


Coordinator


HOD/AERO



SUBASH P KUPPUSAMY

Founder, Brahmastra

📍 CHENNAI, TAMIL NADU ☎ 9003900296 ✉ SUBASHPKS@OUTLOOK.COM
in LINKEDIN.COM/IN/SUBASH-P-KUPPUSAMY-A3937BB7

SUMMARY

Subash is an Aeronautical Engineer and Accidental Bio Scientist

He redeveloped a technology, which converts biodegradable solid waste into high calorific charcoal equivalent fuel. He has filed a patent on the same.

He started his career as a research intern in Hindustan aeronautics limited in 2018-19.

He worked as project coordinator and mentored 10 successful startups and in NGI NEWGEN IEDC Supported by the Department of Science & Technology, Government of India.

He was the first incubate of DST - Nehru group of institutions NEWGEN IEDC.

He is now successfully running an Aerospace & Defence Company which has provided a platform to more than 20,000 students, Scientists, researchers.

In that international online forum during the pandemic, he has taught more than 15000 students around 16 countries Virtually.

He worked with Scientists from NASA, ESA, JAXA, CNSA, CSA, and ISRO for building an Aerospace platform for the students in India.

His motto is

- *To make India a 100 percent energy recycling country.
- *To establish the private space agency in India.
- *To make India self-reliant country in aerospace design and development.

He believes and runs his career path with the motto

"உள்ளவுடைல்லாம் உயர்வுள்ளல்"

which means,

"Let thoughts be always great and grand Though they fail their virtues stand"

 **WORK EXPERIENCE****SCIENTIFIC ADVISOR**

NOVA JET PROPULSION LABORATORY
2017-07 - PRESENT

mentored world's smallest and lightest satellite by team NOVA

FOUNDER & CEO

BRAHMASTRA BIOENERGY
2019-- PRESENT

developed a technology, which converts biodegradable solid waste into high calorific charcoal equivalent fuel. He has filed a patent on the same.

DY PROJECT EXECUTIVE

DST NGI NEWGEN IEDC
2019 - 2020

MEMBER

SPACE GENERATION ADVISORY COUNCIL
2019-11 - PRESENT

FOUNDER & CEO

BRAHMASTRA AEROSPACE SYSTEMS
2019-12 - PRESENT

successfully running an Aerospace & Defence Company which has provided a platform to more than 20,000 students, Scientists, researchers.

In that international online forum during the pandemic, he has taught more than 15000 students around sixteen countries Virtually.

DEPUTY IYS AMBASSADOR

WORKPLACE SKILLS DEVELOPMENT ACADEMY
NEW ZEALAND
2020 - PRESENT

FOUNDER AND CHAIRMAN

BRAHMASTRA FOUNDATION
2020 - PRESENT

Made free classes for more than five hundred people on Spoken English

FOUNDER

BRAHMASTRA STUDYLYTICS
2021 - PRESENT

An online Platform to the students to develop their analytics skills

CO-MANAGING DIRECTOR

COSMAGEN SPACE ORGANISATION
2018-03 - 2019-11

Coined the Idea for HAWK SAT

RESEARCH INTERN

HINDUSTAN AERONAUTICS LIMITED
2017-12 - 2018-01

worked in the Indian airforce Jet Trainer aircraft on "rede

EDUCATION

POSTGRADUATE, INTERNATIONAL AIR & SPACE LAW
CMR UNIVERSITY
2020 - 2022

CMR University
2020 - 2022

INTERNATIONAL ENGLISH LANGUAGE TESTING SYSTEM
BRITISH COUNCIL
2019 - 2019

Scored 7.5

BACHELOR OF ENGINEERING
ANNA UNIVERSITY
2014 - 2019

Anna University
Bachelor of Engineering (B.E.), Aerospace, Aeronautical and
Astronautical/Space
Engineering
2014 - 2019

Research, social activities, core study of aerodynamics, fluid dynamics, flight
Dynamics.

HIGH SCHOOL
LITTLE ANGELS' HIGHER SECONDARY SCHOOL
2012 - 2014

2019 - 2019
little angels higher secondary school
schooling, High School/Secondary Diplomas and Certificates
2012 - 2014

SECONDARY SCHOOL LEAVING CERTIFICATE
SKV MATRICULATION AND HIGHER SECONDARY SCHOOL
2010 - 2012

10th, High School/Secondary Diplomas and Certificates

SKILLS

AIR AND AEROSPACE: AERODYNAMICS



AIR AND AEROSPACE: AEROSPACE



AIR AND AEROSPACE: AEROSPACE DESIGN



AIR AND AEROSPACE: AEROSPACE SYSTEMS



GENERAL ENGINEERING: LUBRICATION



CLOUD COMPUTING: MICROSOFT DYNAMICS



QUALIFICATIONS

Skills

Microsoft Office • Microsoft Word • Research • Leadership • Microsoft PowerPoint • Customer Service • Microsoft Excel • Management • PowerPoint • Public Speaking

Subash P Kuppusamy -

SKILLS

FRANCAIS



KANNADA



MALAYALAM



HINDI



ENGLISH



TAMIL



**PSN College of Engineering and
Technology**

Value Added Course

HANDS ON TRAINNING

IN

DRONE TECHNOLOGY

25 July, 2022

To

29 July, 2022

Registration Form

Name : _____

Qualification : _____

Designation & Dept. : _____

Institution : _____

Address for
Communication : _____

Mobile Number : _____

Email ID : _____

DD No.& Bank : _____

DD Amount : _____

Date: _____ Signature of the Participant

Signature of Head of the
Dept. /Institute with Seal

ORGANIZING COMMITTEE

CHIEF PATRON

Dr. P. Suyambu
Chairman
PSN Institutions

Er. P.S.Jayaram
Vice Chairman
PSN Institutions

PATRON

Dr.P. Selvakumar
Executive Director - PSNCET

Dr.V. Manikandan

Principal - PSNCET

CONVENOR

Dr.K.CHANDRA SEKAR,
Professor/ Aeronautical Engineering
PSN College of Engineering and Technology,
Tirunelveli

COURSE CO-ORDINATOR

Mr K. Esakkimuthu,
Professor/ Aeronautical Engineering
PSN College of Engineering and Technology,
Tirunelveli.

Department of Aeronautical Engineering

organize

Value Added Course

HANDS ON TRAINNING

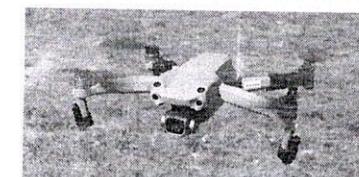
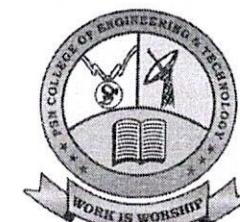
IN

DRONE TECHNOLOGY

25July, 2022

To

29July, 2022



**Department of Aeronautical
Engineering**

**PSN College of Engineering and
Technology (Autonomous)**

Tirunelveli - 627 152

ABOUT THE INSTITUTION

An abode of excellence, a pinnacle of glory, a name that deserves mention whenever there initiates a discussion about the world of engineering, PSN College of Engineering & Technology. An autonomous institution. The institution was founded in 2001 with the sole purpose of providing cutting edge technical education that is both accessible and affordable. From the year 2001, the college embarked on programs of expansion in terms of courses and intake, infrastructure and facilities. Presently the college offers 10 U.G courses. The college also offers 10 P.G courses in engineering including MCA and MBA. More than 70 research scholar are in various disciplines. About 15 KMs away from Tirunelveli towards the well known Papanasam, the college is situated in Melathidiyoor. The institution is spread over an area of about 200 Acres, and maintains a royal existence with its marvelous infrastructure and widely acclaimed for its meticulous planning, resource scheduling and institutional management.

ABOUT THE DEPARTMENT

The department was established in 2005. The department has excellent lab facilities with state of the art equipment and it has highly qualified, experienced and committed faculty members. The department gives importance not only to academic education but also ethical values and personality development of students. The students and faculty of Aeronautical Engineering regularly organize various technical and extracurricular events. The department has exclusive Computer Centre equipped with Core 2 Duo and number of Aeronautical related software packages like Auto CAD, Solidworks, Pro-E and Ansys for Analysis Lab. The department gives continues training program towards the placement of the students with BOSCH Rexroth training centre.

DRONE:

In this course Students will be able to explain the technology, types, area of usage, and legislative regulations about unmanned aerial vehicles. They will identify drone-milticopters and its working principles: - Drone types and areas of usage can be explained. -Legislative regulations are understood. -Students can prepare the drone for shooting and take it off. Then they can control it throughout its journey and command it to land safely. -They can control the drone and its equipments without harming anything around.

TOPICS

- INTRODUCTION TO UAV
- AERODYNAMICS AND AIRFRAME CONFIGURATION
- ASSEMBLY
- TESTING
- DISASSEMBLY

Resource Person

Mr. Subash P Kuppusamy,
FOUNDER & CEO,
BRAHMASTRA AEROSPACE SYSTEMS,
CHENNAI.

REGISTRATION DETAILS

The course fee includes participation, & refreshment. Registration for the value added course can be made by sending duly filled application form along with a DD drawn in favour of "PSN Engineering College" payable at Tirunelveli.

Total number of participants is limited to 60. Selection will be done on first come first served basis. Confirmation of participation is to be made after the selection intimation from the organizers.

Course Fee:

- Research Scholars : Rs.1700/-
- UG/PG Students : Rs. 1700/-

For Registration

Contact:

Mr K. Esakkimuthu,
Assistant Professor,
Department of Aeronautical Engineering,
PSN College of Engineering and Technology,
Melathediyoor
Tirunelveli – 627 152
Mobile: 8148462585
E Mail: hodaero@psncet.ac.in

Last date for registration : 20.07.2022



PSN College of Engineering and Technology (Autonomous)

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f)

An ISO 9001:2015 Certified Institution

(Accredited by NAAC, Affiliated to Anna University, Chennai)

DEPARTMENT OF AERONAUTICAL ENGINEERING

TEST FOR HANDS ON TRAINNING IN DRONE TECHNOLOGY

29-07-2022

- 1) What is full form of UAV?
 - (a) Unarmed Aircraft Vehicle
 - (b) Unmanned Aerial Vehicle
 - (c) Unmanned Aeroplane Vehicle
 - (d) Unarmed Aircraft Vehicle
- 2) Components of Unmanned Aircraft System (UAS) does not consists of _____
 - (a) UAV
 - (b) Ground based controller
 - (c) Air strip for landing
 - (d) A communication system between UAV and Controller
- 3) Which of the following is not a term used for drones?
 - (a) Rapid Action Fight System (RAFS)
 - (b) Unmanned Aircraft Vehicle System (UAVS)
 - (c) Remotely Piloted Aerial System (RPAS)
 - (d) Remotely Piloted Aircraft System (RPAS)
- 4) Civil Aviation Requirements (CAR) is publish by _____
 - (a) Director General of Civil Aviation
 - (b) Airport Authority of India
 - (c) Indian Airforce
 - (d) Central Public Works Department
- 5) Which of the following category of drones does not require registration for use in India?
 - (a) Micro Category
 - (b) Small Category
 - (c) Nano Category
 - (d) Large Category
- 6) As per drone categories in India weight of the Nano drone should be _____
 - (a) More than 250gram
 - (b) Less or equal to 250gram
 - (c) 250gram to 2kg
 - (d) 2kg to 4kg
- 7) As per the drone categories in India weight of the Large category drone should be _____

- (a) 2kg to 25kg
- (b) 25kg to 150kg
- (c) 150kg or more
- (d) less than 100kg

8) A permit is not required for Nano category drones to fly upto _____ feet

- (a) 150
- (b) 50
- (c) 200
- (d) 100

9) A permit is not required for Micro category drones to fly upto _____ feet

- (a) 100
- (b) 300
- (c) 250
- (d) 200

10) As per the general rule of drones flying in India any drones can not be flown more than _____ feet vertically

- (a) 400
- (b) 500
- (c) 350
- (d) 300

11) Which of the following is not a type of drone based on aerial planform used?

- (a) Multi Rotor Drones
- (b) Moving Rotor Drones
- (c) Single Rotor Helicopter
- (d) Fixed Wing Hybrid VTOL

12) Which of the following drone is mostly used by professionals and hobbyists?

- (a) Multi Rotor Drones
- (b) Fixed Wing Drones
- (c) Single Rotor Drones
- (d) Hybrid VTOL

13) Which of the following is not a subtype of multi rotor drone?

- (a) Tricopter
- (b) Quadcopter
- (c) Twincopter
- (d) Octocopter

14) Which of the following is not an application of drone?

- (a) Photogrammetry
- (b) Land Survey
- (c) Population Survey
- (d) Under Water Survey

15) Which of the following is an application of drone?

- (a) Project Monitoring
- (b) Aerial Mapping
- (c) Structural Health Monitoring
- (d) All of the above

16) A process by which information is extracted from photographs to create accurate three dimensional maps is called as _____

- (a) Quantity Survey
- (b) Underwater Survey
- (c) Photogrammetry
- (d) Structural Health Monitoring

17) Photogrammetry creates dynamic, measurable documents using system of _____

- (a) UAV mounted sensors
- (b) GIS mapping system
- (c) Both of the above
- (d) None of the above

18) As compare to aircraft or satellite imagery, drones are beneficial because of _____

- (a) Fly at lower altitude
- (b) High accuracy data
- (c) Independent of atmospheric condition
- (d) All of the above

19) _____ types of data can not be extracted from images produced by survey drones

- (a) Road Signs
- (b) Curbs
- (c) Load Capacity
- (d) Road Markers

20) Servomotor is a closed loop feedback control system.

- a) True
- b) False

21) Servomotors are usually rated in _____.
a) KW
b) torque/hour
c) KVA
d) kg/cm

22) Which of the following is most accurate motor?
a) Squirrel cage induction motor

- b) Universal motor
- c) Servomotor
- d) Repulsion motor

23) DC servo motor consists of

- (i) a small DC motor,
- (ii) feedback circuit,
- (iii) gearbox.

- a) Only (i)
- b) Only (ii) and (iii)
- c) All of the above
- d) only (i) and (ii)

24) The DC servomotors can be controlled by _____.

- a) d.c. motor
- b) pulse width modulation
- c) pulse position modulation
- d) system of pulses to each phase

25) Which axis accelerometer is mostly used in IOT?

- a) 2- axis
- b) 3- axis
- c) 1- axis
- d) Combination of all

26) Accelerometer is the measurement of _____

- a) Velocity/time
- b) Energy/time
- c) Height/time
- d) Angle/time

27) How many and what are the parts that are present in the accelerometer sensor?

- a) 1, capacitor sensor
- b) 3, piezoelectric effect, Analog display, digital display
- c) 2, piezoelectric effect and capacitor sensor
- d) 2, Capacitor sensor, digital Display

28) The BGM160 gyroscope sensor is fitted with _____ interfaces.

- a) Only SPI
- b) Only I2C
- c) SPI and UART
- d) SPI and I2C

29) Gyroscope is used to measure _____

- a) Linear Acceleration
- b) Angular velocity
- c) Angular velocity and linear acceleration
- d) Linear velocity

30) How many sensing structures are there in gyroscope sensor?

- a) Two structures
- b) Three structures
- c) Depending on application
- d) Single structure



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DEPARTMENT OF AERONAUTICAL ENGINEERING

29-07-2022

REPORT OF VALUE ADDED COURSE CONDUCTED

Title of the Course	HANDS ON TRAINING IN DRONE TECHNOLOGY
Dates & Duration	25-07-2022 to 29-07-2022 (30 Hours)
Name(s) of the Resource Persons	Mr.Subash P Kuppusamy, Brahmastra Aerospace systems.
Name of the Course Coordinator	Mr.K.Esakki Muthu, Assistant Professor/Aero
No. of Participants	60

Course Outcomes

After completion of this value added course the students are able to

- Identify & select different types of drones, drone rules and regulations, drone applications, and important safety precautions.
- Identify & select different drone's mechanical parts, aerodynamics of wings, propellers and disassembly and reassembly of common drone platform with flying practices.

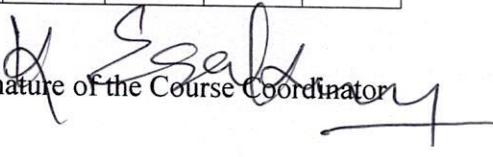
Remarks of the Course Coordinator about the Course

The certificate Course on hands on training in drone technology was conducted for duration of 30 hours for the benefit of aeronautical engineering students. This course highlighted the applications and usage of droneusing in aerospace industries especially in assembly and testing part. The students were also shown very much interest in this course.The course expert clearly explained all the parameters and he made enormous effort for the knowledge of students. This course would be very important for every aeronautical engineering student. I recommend this course for next year also.

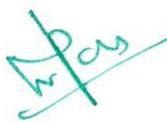
Program Outcome Mapping:

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
✓	✓	✓		✓	✓	✓		✓	✓	✓	✓

Date:29-07-2022


Signature of the Course Coordinator


Signature of the Head of the Department


WES



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Aeronautical Engineering

Feedback Form - Value Added Course

Name of the Course	Hands On Training In Drone Technology
Name of the Student	B.L.Anju
Class	III AERO
Date	29-07-2022

Particulars	Strongly Agree	Agree	Disagree	Strongly Disagree
The Trainer is Knowledgeable		✓		
Adequate time is provided for questions & discussion, and clearing doubts	✓			
The topics mentioned in the Course outline are taught in the class	✓			
The trainer demonstrates the use of Tools & Equipment to conduct the training (if applicable)		✓		
Classes are conducted regularly and on time		✓		

	Excellent	Good	Average	Poor
How would you rate the training overall	✓			

B.L.Anju
29/7/22

Signature of the Student



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

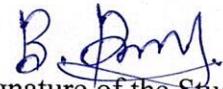
Department of Aeronautical Engineering

Feedback Form - Value Added Course

Name of the Course	Hands On Training In Drone Technology
Name of the Student	B. Pandiyaraj
Class	III rd year
Date	29. 07. 2022

Particulars	Strongly Agree	Agree	Disagree	Strongly Disagree
The Trainer is Knowledgeable	✓			
Adequate time is provided for questions & discussion, and clearing doubts		✓		
The topics mentioned in the Course outline are taught in the class		✓		
The trainer demonstrates the use of Tools & Equipment to conduct the training (if applicable)	✓			
Classes are conducted regularly and on time		✓		

	Excellent	Good	Average	Poor
How would you rate the training overall	✓			


Signature of the Student



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Aeronautical Engineering

Feedback Form - Value Added Course

Name of the Course	Hands On Training In Drone Technology
Name of the Student	K. Janarthanan
Class	III rd year
Date	29-07-2022

Particulars	Strongly Agree	Agree	Disagree	Strongly Disagree
The Trainer is Knowledgeable	✓			
Adequate time is provided for questions & discussion, and clearing doubts	✓			
The topics mentioned in the Course outline are taught in the class		✓		
The trainer demonstrates the use of Tools & Equipment to conduct the training (if applicable)	✓			
Classes are conducted regularly and on time		✓		

	Excellent	Good	Average	Poor
How would you rate the training overall	Excellent			

K. Janarthanan.

Signature of the Student



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY
Department of Aeronautical Engineering

Feedback Form - Value Added Course

Name of the Course	Hands On Training In Drone Technology
Name of the Student	A. J. Anne Joy Aligai
Class	III - Aero
Date	29.7.22

Particulars	Strongly Agree	Agree	Disagree	Strongly Disagree
The Trainer is Knowledgeable	✓			
Adequate time is provided for questions & discussion, and clearing doubts	✓			
The topics mentioned in the Course outline are taught in the class		✓		
The trainer demonstrates the use of Tools & Equipment to conduct the training (if applicable)		✓		
Classes are conducted regularly and on time	✓			

	Excellent	Good	Average	Poor
How would you rate the training overall		✓		

A. J. Rose

Signature of the Student



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

Department of Aeronautical Engineering

Feedback Form - Value Added Course

Name of the Course	Hands On Training In Drone Technology
Name of the Student	T. Manimala
Class	IV th yr Aero
Date	29/09/2022

Particulars	Strongly Agree	Agree	Disagree	Strongly Disagree
The Trainer is Knowledgeable	✓			
Adequate time is provided for questions & discussion, and clearing doubts		✓		
The topics mentioned in the Course outline are taught in the class	✓			
The trainer demonstrates the use of Tools & Equipment to conduct the training (if applicable)		✓		
Classes are conducted regularly and on time	✓			

	Excellent	Good	Average	Poor
How would you rate the training overall		✓		

T. Manimala

Signature of the Student



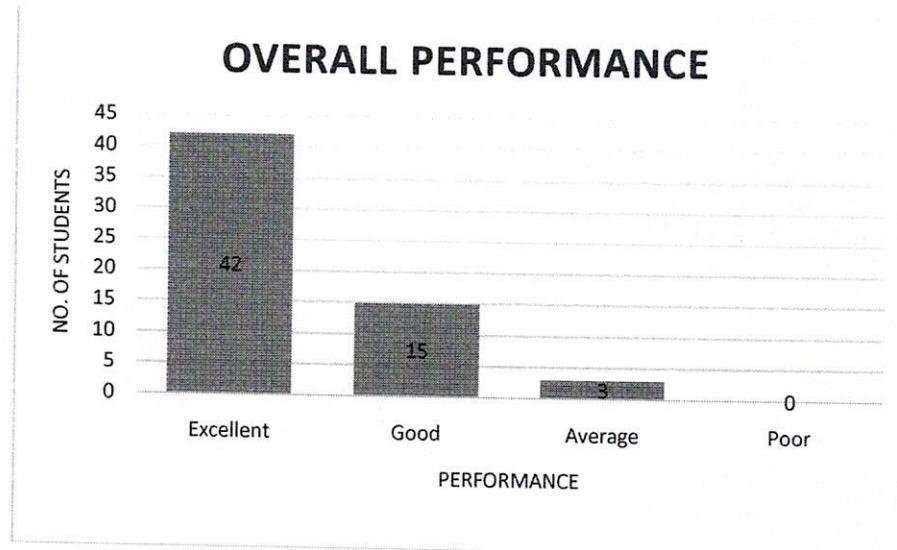
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DEPARTMENT OF AERONAUTICAL ENGINEERING

Feedback Analysis - Value Added Course (AY 2021-22)

Name of the Course: Hands On Training In Drone Technology

Name of the Course Coordinator: Mr.K.Esakki Muthu, Assistant Professor/Aero

	Excellent	Good	Average	Poor
Overall Performance	42	15	3	0




Coordinator


Dr. HOD/AERO

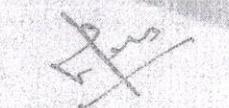


Department of Aeronautical Engineering
CERTIFICATE

We gladly present this certificate to Mr./Ms. B. L. ANJU of
..... III YEAR B.E. Aeronautical Engineering in recognition of successful
completion of Value added course on Hands on Training in Drone Technology
conducted by Department of Aeronautical Engineering from 25th July, 2022 to 29th July,
2022.

D. S. Selvam
Co-ordinator


HOD


Principal



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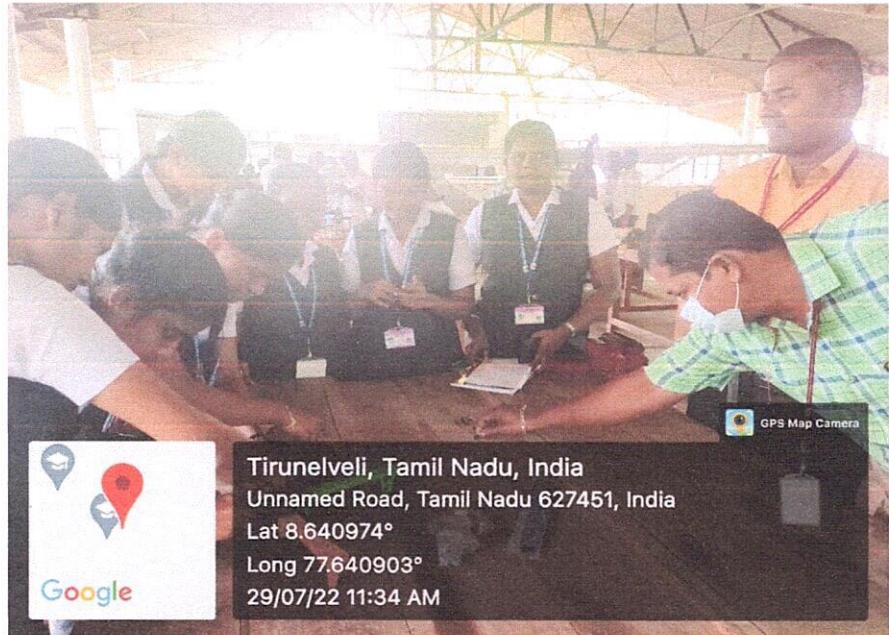
Name of the Course: Hands On Training In Drone Technology

Name of the Course Coordinator: Mr. K.Esakki Muthu, Assistant Professor/Aero

Dates & Duration: 25-07-2022 to 29-07-2022 (30 Hours)

PHOTOS





K. Esakumari
Course Coordinator


HOD/AERO