



P.S.V. COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE and Affiliated to Anna University, Chennai)
Accredited by the NAAC with 'A' Grade
(Inclusion Under Section 2(F) & 12(b) of the UGC Act, 1956)
(An ISO 9001: 2015 Certified Institution)
Bangalore - Chennai Highway, (NH-46),
Mittapalli, Balinayanapalli Post, Krishnagiri - 635 108



NATIONAL CADET CORPS [5 TN Air Sqn (Tech), Salem]

Name of the Event	Workshop/Hands on training on "Computational Fluid Dynamics using ANSYS for Aero modelling"
Date	06.10.2023 & 07.10.2023
Venue	Kumaraguru College Of Technology, Coimbatore
No of Participants	04

Photos of the Event:





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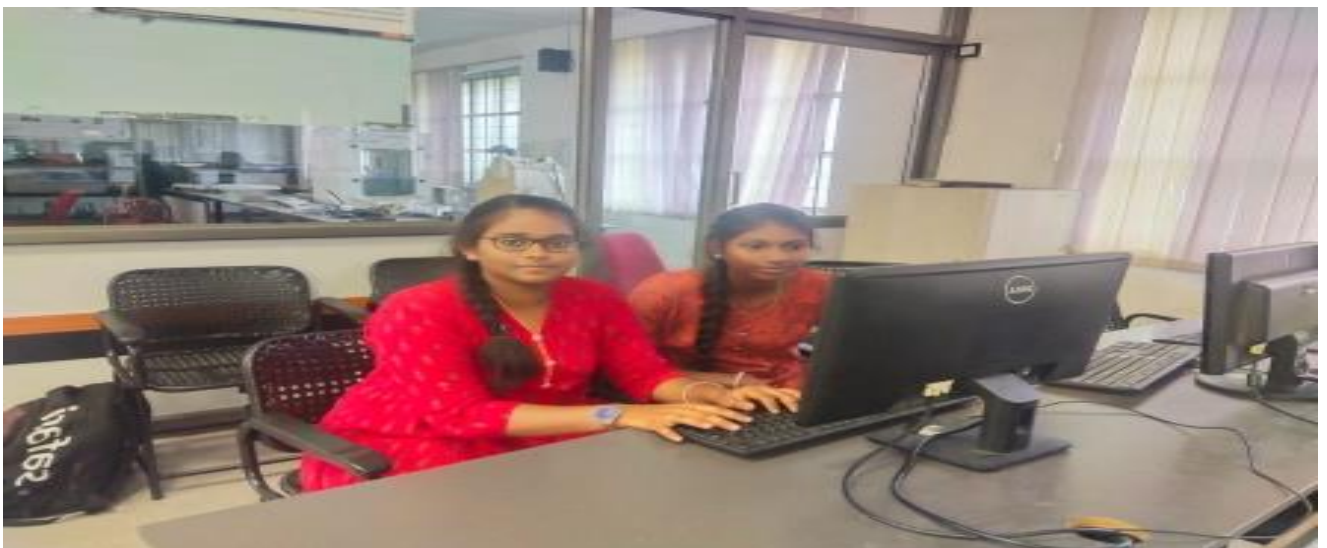
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No.162/Gen/Trg

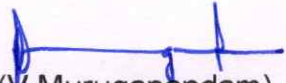
03 Oct 2023

Group Commander
NCC Group Headquarters
Coimbatore

**WORKSHOP ON CFD USING ANSYS FOR AEROMODELING FOR
NCC AIRWING CADETS 2023: REG**

1. It is intimated that as part of the Centre of Excellence Training Programme in Drones and Aeromodelling, a Workshop/Hands on training on "Computational Fluid Dynamics using ANSYS for Aeromodelling" for NCC Airwing Cadets of 5 Air, Salem Zone is scheduled on 06th and 07th Oct 2023 at KCT, Coimbatore.
2. Forty Airwing Cadets interested in Aeromodelling design, experimentation and flying identified from first /second/third year from various institutions has been detailed for subject workshop. AMI Praveen and Sgt Pawan Kumar PI staff along with detailed cadets will undergo the workshop between 06th and 07th Oct 23 at KCT. The workshop is being conducted under the aegis of Aeronautical Dept of KCT, Coimbatore. The arrangements for the stay of the Cadets at KCT and conduct of the workshop and related expenses are borne by the institution and the participating students. The list of students is annexed for reference.
3. For info please.

Encl:(sheets)


(V Muruganandam)
Gp Capt
Commanding Officer

Copy to :

NCC Dte (TN,P&AN), Chennai - For information and necessary action.

Principal, KCT, Coimbatore

5 TN AIR SQN (TECH) NCC, SALEM**CFD WORKSHOP WILLINGNESS CADETS NOMINAL ROLL**

S.No	Regmtl NO	Rank	Name of the Cadet	Sub Unit	Remarks
1	TN22SDF989760	FC	SHASIKANTH G NAIK	EXCEL	
2	TN22SDF989761	FC	RAHUL B JAMADAR	EXCEL	
3	TN22SDF989754	FC	HAFEEZ AHMED	EXCEL	
4	TN22SDF989753	FC	VAISHNAV A	EXCEL	
5	TN22SWF989216	FC	RAGAVI S S	KCT	
6	TN22SWF989203	FC	ROHINI V	KCT	
7	TN22SWF989219	FC	RITHVIK S	KCT	
8	TN22SWF989206	FC	KIRUTHIKA SUNDHARI T	KCT	
9	TN22SWF989502	FC	THESEGA P S	KEC	
10	TN22SDF989503	FC	ABHISHEK S	KEC	
11	TN22SWF989504	FC	PRIYADARSHINI S P	KEC	
12	TN22SDF989518	FC	SANTHOSH S	KEC	
13	TN22SDF989254	FC	JAIKUMAR S	KSRCT	
14	TN22SDF989257	FC	SARAVANAN N	KSRCT	
15	TN22SDF989255	FC	KAVIYARASAN K	KSRCT	
16	TN21SDF989269	LFC	VINITH KUMAR S	KSRCT	
17	TN2022SDF989465	LFC	TEJA G	KSRIET	
18	TN2022SDF989462	LFC	KAVIN PRABHU S	KSRIET	
19	TN2022SDF989453	LFC	LAKSHMANRAJU N C	KSRIET	
20	TN2022SWF989461	LFC	RAKSHANA R	KSRIET	
21	TN21SDF989305	FC	JOTHIRAJ M	MEC	
22	TN22SWF989314	FC	NISHANTHI M	MEC	
23	TN22SWF989316	FC	KAVIYANJALI R	MEC	
24	TN22SDF989309	FC	PARTHASARATHI B	MEC	
25	TN/22/SD/F/989056	FC	S.RAHUL	PSGCT	
26	TN/22/SD/F/989091	FC	KISHORE C	PSGCT	
27	TN/22/SW/F/989059	FC	JANANI E	PSGCT	
28	TN/22/SD/F/989067	FC	S.SAKTHIVEL	PSGCT	
29	TN2022SWF989656	FC	MAHALAKSHMI S	PSV	
30	TN2022SWF989657	FC	NANISHA. E	PSV	
31	TN2022SWF989655	FC	SRIMATHI.S	PSV	
32	TN2022SWF989670	FC	MALLESHWARI M	PSV	
33	TN2022SDF989418	FC	VIJAY.K	SEC	
34	TN2022SDF989412	FC	NAVEEN KUMAR.T	SEC	
35	TN2022SWF989402	FC	SONALI.J	SEC	
36	TN2022SWF989409	FC	LATHAPRABHA.S	SEC	
37	TN2022SDF989359	LFC	PRADEEPKUMAR.K	SSM	

Non Participants Sub Unit List - CSI, GCE, KKC, LOYOLA, NSIT, PGP

**REPORT ON CFD WORKSHOP CONDUCTED FOR CADETS OF
5 TN AIR SQN (TECH) NCC ON 06 & 07 OCT 23 AT KCT, COIMBATORE**

1. **Introduction** NCC is the largest youth organization in the world and aims at creating motivated and disciplined young citizens of India as well as encourage capable energetic youth to join the Armed Forces. 5 TN Air Sqn (Tech) NCC, Salem is assigned with the task of imparting NCC training to cadets of educational Institutions belonging to six districts located in a radius of approximately 160 km. The unit has 800 Junior Division (School) cadets and 800 Senior Division (College) cadets on its enrolled strength. Under the guidance of Commanding Officer, 5 TN Air Sqn (Tech) NCC, Salem a workshop on CFD was organized and successfully conducted at ADA Lab, Kumaraguru College of Technology, Coimbatore on 06 & 07 Oct 2023. A total of 39 Senior Division/ Wing cadets from 10 colleges under this unit attended the workshop.

2. **Background** As part of the centre of Excellence Training programme in Drones and Aeromodelling, Workshop/Hands on training on "Computational Fluid Dynamics using ANSYS for Aeromodelling" for NCC Air Wing Cadets of this Unit was planned to be conducted at Kumaraguru College of Technology Coimbatore on 06 Oct & 07 Oct 23.

3. **Workshop Conduct** A Workshop/Hands on Computational Fluid Dynamics (CFD) using ANSYS for Aeromodelling workshop was conducted for Cadets of this Unit by Aeronautical Engg Department of KCT, Coimbatore, in coordination with Mr. M. Senthil Kumar, HoD (Aero). The workshop was attended by 39 Senior Division/Wing cadets from 10 colleges under this unit. The two day workshop commenced at 0900 hrs and continued upto 1700 hrs on both days. A series of lectures and demo were undertaken by Dr. Vijayananth R, Arokiaraj B & Benny Rajan B of Aeronautical Engg Department, KCT. The broad areas covered are as follows:

- (a) Lecture on Computational Fluid Dynamics
- (b) Demo on solving a propeller design in ANSYS software
- (c) Lecture and Demo on solving a Quadcopter design in ANSYS software
- (d) Lecture on instrument system and engine of Cessna aircraft

4. These lectures and demo using audio-visual content by the qualified personalities made cadets to understand the topic in a professional manner. The Cadets were allowed to draw & design different aerofoil structures independently. Also cadets were made aware about the technical specifications & Standard operating procedures of CESSNA aircraft.

INAUGURATION OF THE CFD WORKSHOP



LECTURE ON COMPUTATIONAL FLUID DYNAMICS



DEMO ON SOLVING A PROPELLER DESIGN IN ANSYS SOFTWARE



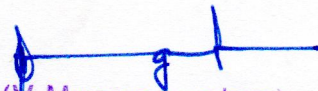
LECTURE ON INSTRUMENT SYSTEM AND ENGINE OF CESSNA AIRCRAFT



FELICITATION



5. **Conclusion** NCC cadets of Institutions under 5 TN Air Sqn (Tech) NCC are predominately from rural and semi-urban backgrounds. The knowledge provided by this CFD workshop has enlightened them on developing and designing of aerofoil structures and enables them to understand the various technical aspects of aerofoil structure designing.


(Y Muruganandam)
Gp Capt
Commanding Officer
5 (TN) Air Sqn (Tech) NCC
SALEM-636 005.

