

# HAMS RADIO COMMUNICATION DURING DISASTER MANAGEMENT

On 24<sup>th</sup> September there was a guest talk on HAMS Radio communication during disaster management by the founder of Indian Institute of Hams Dr.Shankar Sathyapal VU2FI.

The program was organized by the Department of ECE, AIET in which **29 cadets Air wing Flt – B of 06 Kar Air Sqn NCC** took part in the talk, to understand how to setup communication link during disaster management.

Dr. S Sathyapal is the managing trustee & Director (admin) & Officer Commanding (communications) Directorate of Civil Defense. He got two Rajiv Gandhi national awards and gold medal for his service and he was awarded the engineering excellence awards. INDIAN INSTITUTE OF HAMS (IIH) was established as a registered trust in 1993 for promoting amateur (HAM) radio in India.

What is amateur radio (HAM Radio)?



**Amateur Radio (ham radio)** is a popular hobby and service that brings people, electronics and communication together. People use **ham radio** to talk across town, around the world, or even into space, all without the Internet or cell phones.

HAM radio operators need to pass an examination for the license. The syllabus for the examination is **Electronics theory** i.e, basic electronics, Receivers and transmitters, Antennas and wireless transmission, wave propagation.

He various activates he carry out as follows,

- Field days to train Ham operations to setup and handle effective communications during disasters are conducted at regular intervals.
- Demonstrations, lectures, slide and video presentation programming are conducted at various educational institutional and social organizations as and when called for.
- Seminars, workshops and mock drills are conducted periodically.
- Fox Hunts (Radio direction finding) are organized almost every year.
- Quiz-on-air program.
- Electronics assembly workshops.

HAM Radio doesn't need internet to communicate, it just need a good line of sight. During disasters the internet may not work properly but the HAM radio can. There is a team called HAM action force in which the team members use HAM radios to communicate and help the people. All things are permitted to talk over the HAM radio

The term HAM is a person, who is deeply interested on radio communication, setting up their own private radio station in their home, conducts experiments and develops global experience. We can communicate people from all over the world by setting frequency bands like VHF, UHF, HF. There will be a specific code language to communicate the hams of different places and different languages.

There will be certain call signs for different people and different countries. The call sign for :- Australia – VK; Japan – JA1, JA2, JA3; USA - AAA-ALZ, KAA-KZZ, NAA-NZZ, WAA-WZZ.

He also briefed about Morse code. Morse code is a character encoding scheme used in telecommunication that encodes text characters as standardized sequences of two different signal durations called dots and dashes or dits and dahs. Morse code is named for **Samuel F. B. Morse**, an inventor of the telegraph.

Morse code :- dots and dash

A	• —	M	— —	Y	— • — —
B	— • • •	N	— •	Z	— — • •
C	— • — •	O	— — —	1	• — — — —
D	— • •	P	• — — •	2	• • — — —
E	•	Q	— — • —	3	• • • — —
F	• • — •	R	• — •	4	• • • • —
G	— — — •	S	• • •	5	• • • • •
H	• • • •	T	—	6	— • • • •
I	• •	U	• • —	7	— — • • •
J	• — — — —	V	• • • —	8	— — — • •
K	— • —	W	• — —	9	— — — — •
L	• — • •	X	— • • —	0	— — — — —

Dr. Shankar Sathyapal VU2FI explaining about HAMS Radio communication.



Students and staff of AIET gathered for the guest talk by Dr. Shankar Sathyapal  
VU2FI







**INSTITUTIONAL TRG ACTIVITY ATTENDANCE RECORD SHEET : 6 KAR AIR SQN NCC**

Use separate sheet for different Batches and/or subject/ activity. DONOT club different batches/activity in one sheet.

SPECIAL / COMMON / NCC ACTIVITY Code (As per Syllabus): Duration: 2 : 30 Hrs

Subject : Topic : Talk on HAM &amp; Disaster management

Time Start: 14:30 hrs End: 17:00 hrs Instructor ANO/ PI staff : Pg off Parvaz Shariff B4

**FLT / TP ATTENDANCE SUMMARY**

	Allotted	Enrolled	Present	Absent
SD / JD	63	43	13	
SW / JW	20	20	09	
TOTAL	63	63	22	

**MENU FOR REFRESHMENTS****RECORD OF CADETS IN ATTENDANCE**

TOTAL CLASSES: &gt; BF- CF-

SI No	Regimental No.	Rank	Cdts' Name	Cdts' Sign	PROGRESSIVE ATTENDANCE		
					BF	Today	CF
1.	KAR/19/SD/F/170801	CDT	SANATH K AMIN	---			
2.	KAR/19/SD/F/170802	CDT	DHEEMANTH A S	---			
3.	KAR/19/SD/F/170803	CDT	SUMANTH PATEL S R	---			
4.	KAR/19/SD/F/170804	CDT	MOHAMMED SUHAIB	---			
5.	KAR/19/SD/F/170805	CDT	PARAMESH C	---			
6.	KAR/19/SD/F/170806	CDT	PRITHVI P A	---			
7.	KAR/19/SD/F/170807	CDT	MAHAMMD EMRAN	---			
8.	KAR/19/SD/F/170808	CDT	ABHISHEK S	---			
9.	KAR/19/SD/F/170809	CDT	YESHWANTH BA	Yeshwanth			
10.	KAR/19/SD/F/170810	CDT	RISHAB. V	---			
11.	KAR/19/SD/F/170811	CDT	PRUTHVI RAJ D.A	Pruthvi			
12.	KAR/19/SD/F/170812	CDT	SHRIKARA R M	---			
13.	KAR/19/SD/F/170813	CDT	RAKSHITH M A	---			
14.	KAR/19/SD/F/170814	CDT	NITESH SEETARAM NAIK	Nitesh			
15.	KAR/19/SD/F/170815	CDT	M.RAVICHANDRA	---			
16.	KAR/19/SD/F/170816	CDT	SHIVAKUMAR	Shivakumar			
17.	KAR/19/SD/F/170817	CDT	SHALIVAHAN ISHWAR KUMBAR	Shalivahan			
18.	KAR/19/SD/F/170818	CDT	MANTESH	---			
19.	KAR/19/SD/F/170819	CDT	BHARTH B D	---			
20.	KAR/19/SD/F/170820	CDT	NISCHAL M R	Nischal			
21.	KAR/19/SD/F/170821	CDT	SAMEER SHAIK	Sameer			
22.	KAR/19/SD/F/170822	CDT	ADWAITH.P	---			
23.	KAR/19/SD/F/170823	CDT	SHREYAS M	---			
24.	KAR/19/SD/F/170824	CDT	SATWIK VIGNESHWAR GUNAGA	Satwik			
25.	KAR/19/SD/F/170825	CDT	NANDANA MAHENDRA HEGDE	---			
26.	KAR/19/SD/F/170826	CDT	AKHILESH V	---			
27.	KAR/19/SD/F/170827	CDT	M KIRANA KUMARA	---			

Flt / Tp No: FLIGHT-B Place: MOODBIDRI Batch: 1<sup>st</sup> yr / 2<sup>nd</sup> yr / 3<sup>rd</sup> yr Date: 24/09/19

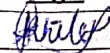



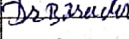

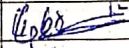


















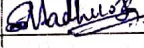

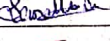







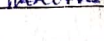
Sign: Maryji Sharath Kumar

Name: Maryji Sharath Kumar  
(Senior Cdt)

(PI Staff)

Pg off Parvaz Shariff B4  
(ANO)  
6.Kar.Air.Sqn.NCC-Mangaluru



RECORD OF CADETS IN ATTENDANCE				TOTAL CLASSES: >			BF-	CF-
SI No	Regimental No.	Rank	Cdts' Name	Cdts' Sign	PROGRESSIVE ATTENDANCE			
					BF	Today	CF	
28.	KAR/19/SD/F/170828	CDT	AKHILESH HERKAL					
29.	KAR/19/SD/F/170829	CDT	SRINIDHI M					
30.	KAR/19/SD/F/170830	CDT	PURUSHOTHAMA H P					
31.	KAR/19/SD/F/170831	CDT	KETAN ARJUN KARANDE					
32.	KAR/19/SD/F/170832	CDT	DHANARAJ					
33.	KAR/19/SD/F/170833	CDT	K FAROOQ ABDULLA					
34.	KAR/19/SD/F/170834	CDT	CHINMAYA BHAT K K					
35.	KAR/19/SD/F/170835	CDT	BRIJESH REDDY KH					
36.	KAR/19/SD/F/170836	CDT	MANOJ KUMAR M K					
37.	KAR/19/SD/F/170837	CDT	DENIL PAUL					
38.	KAR/19/SD/F/170838	CDT	MALLIKARJUN BASAVARAJ GORAVAR					
39.	KAR/19/SD/F/170839	CDT	DUSHYANTH					
40.	KAR/19/SD/F/170840	CDT	SHAMJETSHABAM NOREN SINGH					
41.	KAR/19/SD/F/170841	CDT	UMAR FAROOQ KHAN SHIRED					
42.	KAR/19/SD/F/170842	CDT	SHIVARAJ					
43.	KAR/19/SD/F/170843	CDT	KEERTHAN P					
44.	KAR/19/SW/F/170844	CDT	GLEVETA REYONA NORONHA					
45.	KAR/19/SW/F/170845	CDT	VIBHA RAO					
46.	KAR/19/SW/F/170846	CDT	KUMARI KHYATHI					
47.	KAR/19/SW/F/170847	CDT	DEEKSHA.K					
48.	KAR/19/SW/F/170848	CDT	AKSHITHA C V					
49.	KAR/19/SW/F/170849	CDT	SUMA N R					
50.	KAR/19/SW/F/170850	CDT	NAYANA .G					
51.	KAR/19/SW/F/170851	CDT	AISHWARYA. M. T					
52.	KAR/19/SW/F/170852	CDT	SINDHU R					
53.	KAR/19/SW/F/170853	CDT	MADHU K					
54.	KAR/19/SW/F/170854	CDT	SPOORTHIA M					
55.	KAR/19/SW/F/170855	CDT	SANDHYA KAPSE					
56.	KAR/19/SW/F/170856	CDT	DEESHA D SHENOY					
57.	KAR/19/SW/F/170857	CDT	PRENITA PRINSAL SALDANHA					
58.	KAR/19/SW/F/170858	CDT	HARSHITHA R SHETTY					
59.	KAR/19/SW/F/170859	CDT	THANUSHREE M					
60.	KAR/19/SW/F/170860	CDT	PUSHPITHA P					
61.	KAR/19/SW/F/170861	CDT	RASHMI K					
62.	KAR/19/SW/F/170862	CDT	ANKITA SANNNADURGYA NAIK					
63.	KAR/19/SW/F/170863	CDT	THRISHALA M					

NOTE # Use separate sheet for different Batches &/or subject/ activity. DONOT club different batches/activity in one sheet.

Flt / Tp No:	FLIGHT-B	Place:	MOODBIDRI	Batch:	1 <sup>st</sup> yr /	2 <sup>nd</sup> yr /	3 <sup>rd</sup> yr	Date:	24/09/19
Sign:									
Name:	M. Sharath Kumar			(Senior Cdt)			(PI Staff)		
							 (ANO)		

6.Kar.Air.Sqn.NCC-Mangaluru



# INSTITUTIONAL TRG ACTIVITY ATTENDANCE RECORD SHEET : 6 KAR AIR SQN NCC

Use separate sheet for different Batches and/or subject/ activity. DONOT club different batches/activity in one sheet.

SPECIAL / COMMON / NCC ACTIVITY Code (As per Syllabus): Duration: 02:30 Hrs

Subject : Topic : Talk on HAM & Disaster management

Time Start: 14:30 hr End: 17:00 hr Instructor ANO/ PI staff : Fg offr Parvez Shaif B G

## FLT / TP ATTENDANCE SUMMARY

	Allotted	Enrolled	Present	Absent
SD / JD	20	20	03	
SW / JW	08	08	01	
TOTAL	28	28	04	

## MENU FOR REFRESHMENTS

## RECORD OF CADETS IN ATTENDANCE

TOTAL CLASSES: > BF- CF-

SI No	Regimental No.	Rank	Cdts' Name	Cdts' Sign	PROGRESSIVE ATTENDANCE		
					BF	Today	CF
1.	KAR/18/SD/F/160268	CDT	ALWIN SAM ANIL	---			
2.	KAR/18/SD/F/160270	CDT	C.M. SHARATH CHANDRA	---			
3.	KAR/18/SD/F/160272	CDT	CHETHAN B U	---			
4.	KAR/18/SD/F/160275	CDT	LAXMAN B HEBBAL	---			
5.	KAR/18/SD/F/160276	CDT	MITHULESH J M	---			
6.	KAR/18/SD/F/160277	CDT	MOHAMMED SAQLAIN BAIG	---			
7.	KAR/18/SD/F/160281	CDT	PUNEETH K	---			
8.	KAR/18/SD/F/160282	CDT	RUBESH MURTHY G	---			
9.	KAR/18/SD/F/160286	CDT	SHASHANK S P	---			
10.	KAR/18/SD/F/160287	CDT	SHETTY GAURESH GANESH	---			
11.	KAR/18/SD/F/160289	CDT	VISHWESH V BHAT	---			
12.	KAR/18/SD/F/160291	CDT	YUVARAJ.H	---			
13.	KAR/18/SD/F/160292	CDT	YUVRAJ B N	---			
14.	KAR/18/SD/F/160293	CDT	PRAVEEN KUMAR	---			
15.	KAR/18/SD/F/160294	CDT	KIRAN K	---			
16.	KAR/18/SW/F/160296	CDT	ANURADHA V	---			
17.	KAR/18/SW/F/160300	CDT	HARSHITHA.T	---			
18.	KAR/18/SW/F/160303	CDT	SAMRUDDHI A BOGAR	---			
19.	KAR/18/SW/F/160305	CDT	SHILPASHREE B R	---			
20.	KAR/18/SW/F/160306	CDT	SNEHA SHUKLA	---			
21.	KAR/18/SW/F/160307	CDT	SNEHASHREE R	---			
22.	KAR/18/SW/F/160308	CDT	SPOORTHY V V	---			
23.	KAR/18/SW/F/160310	CDT	VARSHITHA T R	---			
24.	KAR/17/SD/F/160212	CDT	BALAJI V	---			
25.	KAR/17/SD/F/160233	CDT	RITESH S SHETTY	---			
26.	KAR/17/SD/F/160235	CDT	SAGAR SHRISHAIL EMMI	---			
27.	KAR/17/SD/F/160240	CDT	VIGNESH K R	---			

Flt / Tp No: FLIGHT-B Place: MOODBIDRI Batch: 1<sup>st</sup> yr / 2<sup>nd</sup> yr / 3<sup>rd</sup> yr Date: 24/09/19

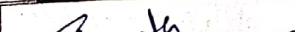

Sign: A. Senthil  
Name: Mayya Shanthi kuma  
(Senior Cdt)  
( PI Staff )  
Fg offr Parvez Shaif B G  
( ANO )  
6.Kar.Air.Sqn.NCC-Mangaluru



TOTAL CLASSES: >	BF-		CF-	
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<u>Cdts'</u>	<u>PROGRESSIVE ATTENDANCE</u>		
<u>Sign</u>	<u>BF</u>	<u>Today</u>	<u>CF</u>

NOTE # Use separate sheet for different Batches &/or subject/ activity. DONOT club different batches/activity in one sheet.

Flight / Tp No:		FLIGHT-B		Place:	MOODBIDRI	Batch:	1 <sup>st</sup> yr /	2 <sup>nd</sup> yr /	3 <sup>rd</sup> yr	Date:	24/09/19
Sign:											
Name:	Hayya Sharath kumar								Fg aff Pameez Sheriff		
	(Senior Cdt)								(ANO)		
6.Kar.Air.Sqn.NCC-Mangaluru											



**INSTITUTIONAL TRG ACTIVITY ATTENDANCE RECORD SHEET : 6 KAR AIR SQN NCC**

Use separate sheet for different Batches and/or subject/ activity. DONOT club different batches/activity in one sheet.

SPECIAL /	COMMON /	NCC ACTIVITY	Code (As per Syllabus):	Duration: 30	Hrs
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Subject :	Topic : <u>Talk on Harm Reduce &amp; Disaster management</u>
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Time	Start: 14:30 hr	End: 17:00 hr	Instructor ANO/ PI staff : Rg off Parvez Shabbir RG
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## FLT / TP ATTENDANCE SUMMARY

## MENU FOR REFRESHMENTS

	<u>Allotted</u>	<u>Enrolled</u>	<u>Present</u>	<u>Absent</u>
SD / JD	08	08	02	
SW / JW	01	01	01	
TOTAL	09	09	03	

## RECORD OF CADETS IN ATTENDANCE

SI No	Regimental No.	Rank	Cdts' Name
1.	KAR/17/SD/F/160213	CDT	Charan M S
2.	KAR/17/SD/F/160214	CDT	Chirag K R
3.	KAR/17/SD/F/160222	CDT	Keerthinath B M
4.	KAR/17/SD/F/160225	CDT	Mahammed Rashik
5.	KAR/17/SD/F/160229	CDT	Mayya Sharath Kumar
6.	KAR/17/SD/F/160234	CDT	S Nikhilesh
7.	KAR/17/SD/F/160242	CDT	Vikas M
8.	KAR/17/SD/F/160244	LFC	Vivekanand S Bekkeri
9.	KAR/17/SW/F/160263	CDT	Shreetal Kalabandi

TOTAL CLASSES: >		BF-		CF-	
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<u>Cdts'</u> <u>Sign</u>	<u>PROGRESSIVE ATTENDANCE</u>		
	<u>BF</u>	<u>Today</u>	<u>CF</u>

~~replied.~~  
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Flt / Tp No:	<u>FLIGHT-B</u>	Place:	MOODBIDRI	Batch:	<u>1<sup>st</sup></u> <u>yr</u> /	<u>2<sup>nd</sup></u> <u>yr</u> /	<u>3<sup>rd</sup></u> <u>yr</u>	Date:	
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Sign:	M. Sharath Kumar				B4
Name:	Harish Sharath Kumar (Senior Cdt)		(PI Staff)		Eg off Ramesh Shetty B4 (ANO) 6.Kar.Air.Sqn.NCC-Mangaluru