## 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.
- o Demonstrations, lectures, slide and video presentation programming are conducted at various educational institutional and social organizations as and when called for.
- o Seminars, workshops and mock drills are conducted periodically.
- o Fox Hunts (Radio direction finding) are organized almost every year.
- o Quiz-on-air program.
- Electronics assembly workshops.

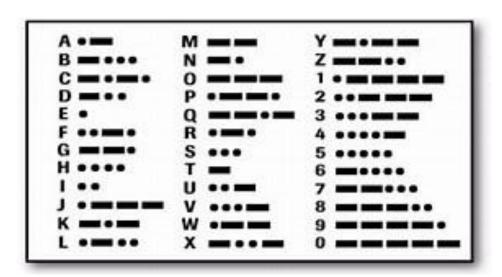
HAM Radio doesn't need internet to communicate, it just need a good line of sight. During disasters the internet may not work properly but the HAM radio can. The is a team called HAM action force in which the team members use HAM radios to communicate and help the people. All things are permitted to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



Dr. Shankar Sathyapal VU2FI explaining about HAMS Radio communication.



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







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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: 90:30   Hr   Subject:   Topic:   Talk on Ham Rodre & Duration: 10:30   Hr   Start:   19:30   End:   19:10   Late   Instructor ANO/ PI staff: 19 off Rover Short RO   FLT / TP ATTENDANCE SUMMARY   Allotted   Enrolled   Present   Absent   MENU FOR REFRESHMENTS   SD / JD   88   08   02   SO   Code (As per Syllabus):   Duration: 10:30   Hr
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6. KAR/17/SD/F/160234 CDT S Nikhilesh
7. KAR/17/SD/F/160242 CDT Vikas M
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