



KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Autonomous)



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Department of Electronics and Communication Engineering
organizes
Webinar

on

Insight of Amateur Radio & Robotics

Date: 7th May 2020 | Time: 10:00am - 12:00pm

PANEL MEMBERS

Introduction to Amateur Radio

OM. Deepan, VU2DPN
Technical Manager,
AVM Studio

Robotic Applications

Mrs. Rama Munukar
Management Representative,
Datafield India Private Limited



Need to Establish Disaster Communication

OM. V. Ramesh Kumar, VU3VRF
Founder Trustee & Director,
Rajapalayam Int. Radio Comm. Club



Satellite Communication

OM. N. Krishnakumar, VU2ELD
Managing Director,
USL Solar Energy

Amateur Radio Material

OM. M. Karthikeyan, VU2MOT
Director,
Integral Control Systems &
Advanced Laboratory

Why need to know Amateur Radio

OM. Biju Gopi Thilaka, VU2HBI
Director,
Technology Operations, IOTNIK LIMITED

Free Registration & Certificate:

<https://bit.ly/KPR-HAM>

Registration closes on

6th May 2020 @ 05.00 pm

Executant: **OM. M. K. Ananthakumar, VU2APE**

Vice President, Coimbatore Amateur Radio Club

Coordinator's: **Dr. M. G. Sumithra**, Professor - Head of ECE & CFRD

OM. G. K. Jakir Hussain, VU3JKU, Asst. Prof. (SI.G) / ECE

For queries / clarifications, please contact @ 9600 548 540

WEBINAR ON “INSIGHT OF AMATEUR RADIO & ROBOTICS”

(07 May 2020)

A webinar on “Insight of Amateur Radio & Robotics” was organized by the Department of Electronics and Communication Engineering, KPR Institute of Engineering and Technology remotely through online mode of conduct for the Students & faculty members of Schools, Colleges and Universities and general public all over India.

The program started at 10:00 am with the welcome address by Dr.M.G.Sumithra, Professor and Head of the Department of ECE, KPRIET.

Mrs.Rama Munukur, Management Representative, Datafield India Pvt. Ltd. gave a brief insight about robotics and its applications to the participants. OM.N.Krishnakumar, VU2ELD, Managing Director, USL Solar Energy explained about the process involved in transmitting and receiving signals for satellite communication. He also showcased different types of antennas used for satellite communication and explained about its parameters. OM.BIJU GOPI THILAKA, VU2HBI, Director - Technology Operations, IOTNIK LIMITED, UK provided a detailed information on why Amateur radio is needed and what are all the activities carried out by Amateur radio operators in India. He explained the contribution of Amateur radio operators in designing servers and websites.

OM.V.Ramesh kumar, VU3VRF, Founder Trustee and Director, Rajapalayam International Radio Communicators Club explained the need for disaster communication and how it works when a disaster arises with examples. He also shared his experience during disaster and how Amateurs radio operators support government in disaster management. OM.M.Karthikeyan, VU2MOT, Director, Integral Control Systems & Advanced Laboratory (R&D Centre) educated the participants upon Amateur radio licensing process practiced in India and its benefits to the license holder. OM.N.Deepan, VU2DPN, Technical Manager, AVM Studio, Chennai enlightened the participants with how Amateur radio came into practice and its broad applications.

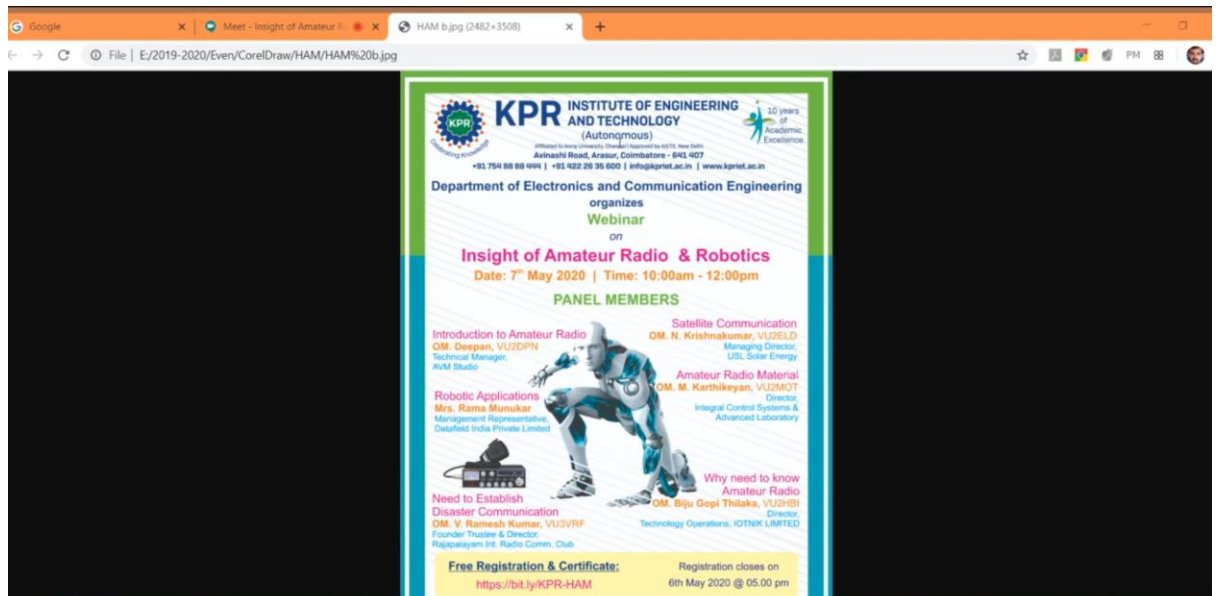
The participants actively participated in the program through raising their queries and appraising the panel members through the messages. OM.G.K.Jakir Hussain, VU3JKU, Assistant Professor (Selection Grade) of the Department of ECE, KPRIET delivered the vote of thanks and the program came to an end at 12:10 pm.

Dr.M.G.Sumithra, Professor and Head of the Department and Mr.G.K.Jakir Hussain, Assistant Professor (Selection Grade) of the Department of ECE, KPRIET coordinated the program and OM.M.K.Ananthakumar, VU2APE, Vice President, Coimbatore Amateur Radio Club compered the program. The program was attended by 1,351 participants (including 4 from overseas) through YouTube live and the state-wise split-up of the same is mentioned below; The participants appreciated through feedback about the program and appealed to conducted Amateur radio licensing classes in the near future.

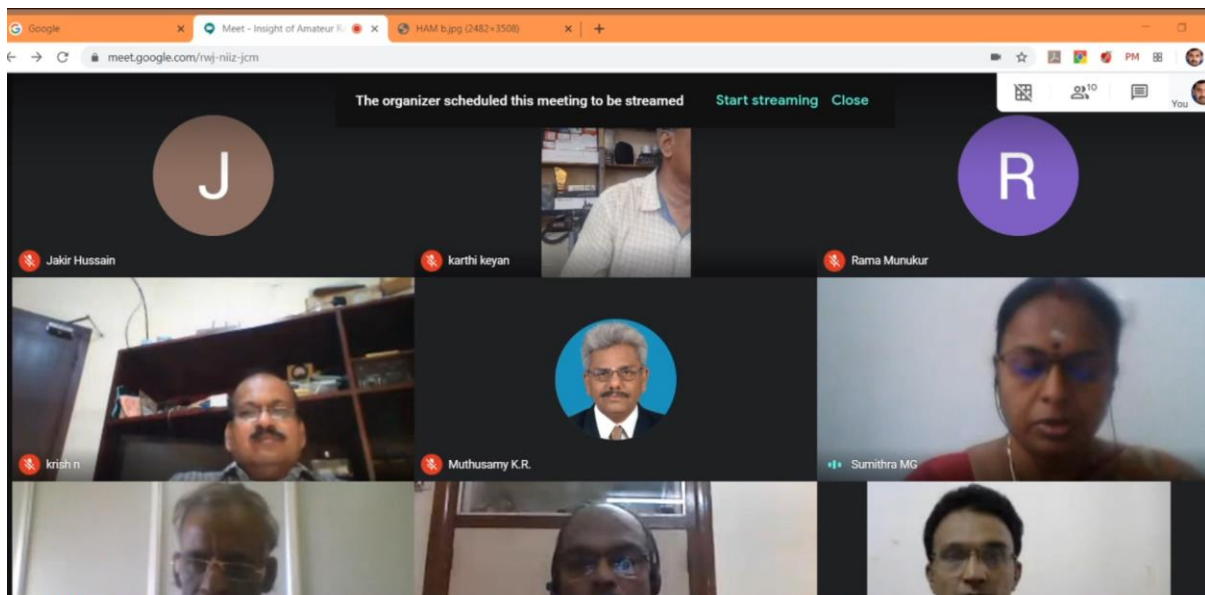
STATE-WISE PARTICIPANTS COUNT

S.No.	Name of State and Union Territories	No. of participants
1.	Overseas	4
2.	Andhra Pradesh	176
3.	Assam	1
4.	Bihar	1
5.	Chhattisgarh	1
6.	Gujarat	4
7.	Haryana	11
8.	Himachal Pradesh	1
9.	Jammu and Kashmir	3
10.	Jharkhand	1
11.	Karnataka	9
12.	Kerala	6
13.	Madhya Pradesh	3
14.	Maharashtra	67
15.	New Delhi	1
16.	Odisha	1
17.	Puducherry	2
18.	Punjab	14
19.	Rajasthan	3
20.	Tamilnadu	942
21.	Telangana	73
22.	Tripura	10

23.	Uttar Pradesh	11
24.	Uttarakhand	1
25.	West Bengal	10



cutant: OM.M.K.Ananthakumar, VU2APE, Vice President, Coimbatore Amateur Radio Club
 Department of Electronics and Communication Engineering, KPR Institute of Engineering and Technology



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Google Meet - Insight of Amateur Radio ... HAM b.jpg (2482x1508)

meet.google.com/wj-niz-jcm

Rama Munukur is presenting

Muthusamy K.R. and 9 more

PIR sensors – Passive Infrared sensors

- Passive Infra Red sensors detect thermal power emanated by humans (far infrared region of 4-20 μm)
- Security systems, automatic light switch
- Typically uses Fresnel lens and pyroelectric sensors



Mrs. Rama Munukur, Management Representative, Datafield India Pvt. Ltd. | Department of Electronics Engineering, KPR Institute of Engineering and Technology

Google Meet - Insight of Amateur Radio ... HAM b.jpg (2482x1508)

meet.google.com/wj-niz-jcm

krish n is presenting

Rama Munukur and 4 more

Qatar-OSCAR 100 (Es'hail-2)

Mode	Bandwidth	Center Frequency (MHz)
Uplink NB	250 kHz	2400.075
Uplink WB	8 MHz	2405.5
Downlink NB	250 kHz	10489.55
Downlink WB	8 MHz	10495



OM.N.Krishnakumar, VU2ELD, Managing Director, USL Solar Energy | Department of Communication Engineering, KPR Institute of Engineering and Technology

Google Meet - Insight of Amateur Radio & Robotics

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krish n is presenting

N Deepan and 3 more

Feeds for QO-100

Managing Director, USL Solar Energy "Insight of Amateur Radio & Robotics"
 Hussain, VU3JKU, Assistant Professor/ECE Coordinated by: Dr.M.G.Sur

Google Meet - Insight of Amateur Radio & Robotics

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Biju Gopi Thilaka is presenting

Muthusamy K.R. and 3 more

HOME ACTIVITIES RESEARCH TEAM ABOUT US AARS DIGITAL CONTACT

Connect to Active Hams

BUILD WITH DEBIAN CORE AND DDE UI - FROM AARS IT & COMMUNICATION RESEARCH GROUP

HAMIX - The Linux For Hams

300 Plus Software and Tools
 Hundreds of native applications customized under 15 categories, that can be used for most modern radio communications and Radio Astronomy.

Modern SPLAT Tool optimized for Amateur Radio
 Customized RF Signal Propagation, Loss, And Terrain analysis Tool based on Splatt with rebuild with QT

Latest Linux Kernel
 HAMIX Linux exclusively for Amateur Radio Service, licensed under the MIT. (@ Private Repository with 10 developer at GitLab) based on Debian with latest kernel.

15 Communication Software Categories
 Antenna, Digital, Distribution, Documentation, Electronics, Logging, Morse, Obsolete, Packet Radio, Propagation, Registration, Rigcontrol, Satellite, SDR, Utils are the main Category

" OM.BIJU GOPI THILAKA, VU2HBI, Director - Technology Operations, IOTNI
 Dr.M.G.Sumithra, Professor & Head/ECE & OM.G.K.Jakir Hussain, VU3JKU,

Google Meet - Insight of Amateur Radio & Robotics

RAMESH KUMAR VU3 VRF is presenting

அமெச்சூர் வானொலி மூலம் உலகம் முழுவதும் பேசுங்கள்

An amateur station that by **Harvard University** student **Hyman** supposedly shared with **Bob Almy** and **Peggie Murray**, which was said to be using the self-assigned call sign **HAM** (short for **H**yman-**A**lmy-**M**urray), thus came to represent all of amateur radio.

It is sometimes claimed that **HAM** came from the first letter from the last names of three radio pioneers: **Heinrich Rudolf Hertz**, **Edwin Armstrong**, and **Guglielmo Marconi**.

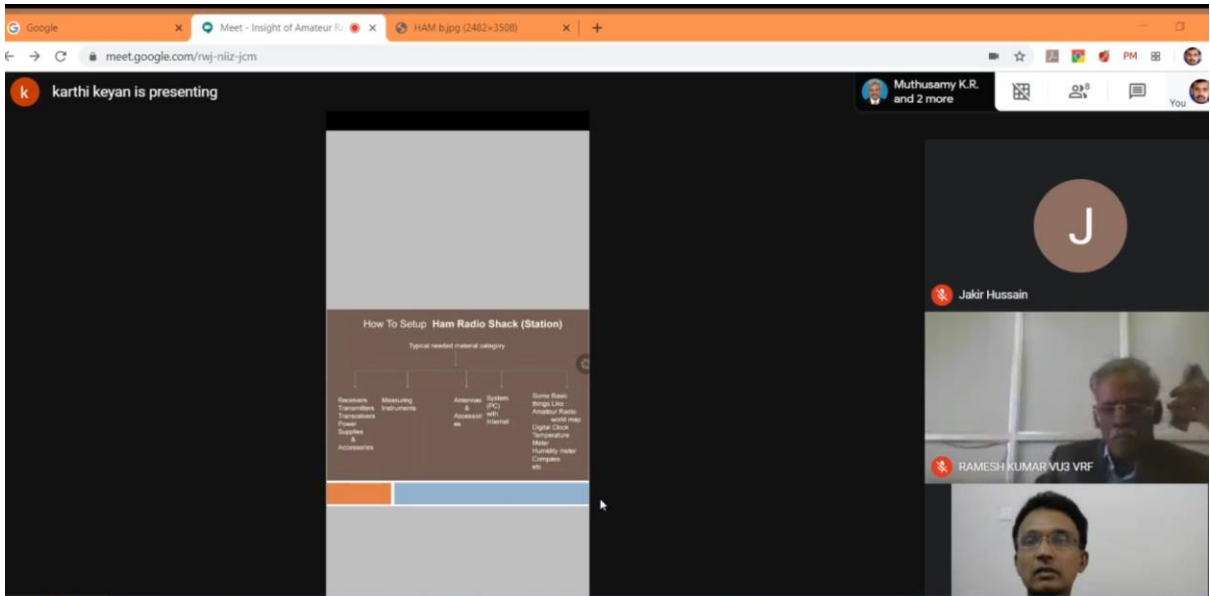
OM.V.Ramesh kumar, VU3VRF, Founder Trustee and Director, Rajapalayam I
 ering, KPR Institute of Engineering and Technology Organized by: The De


Google Meet - Insight of Amateur Radio & Robotics

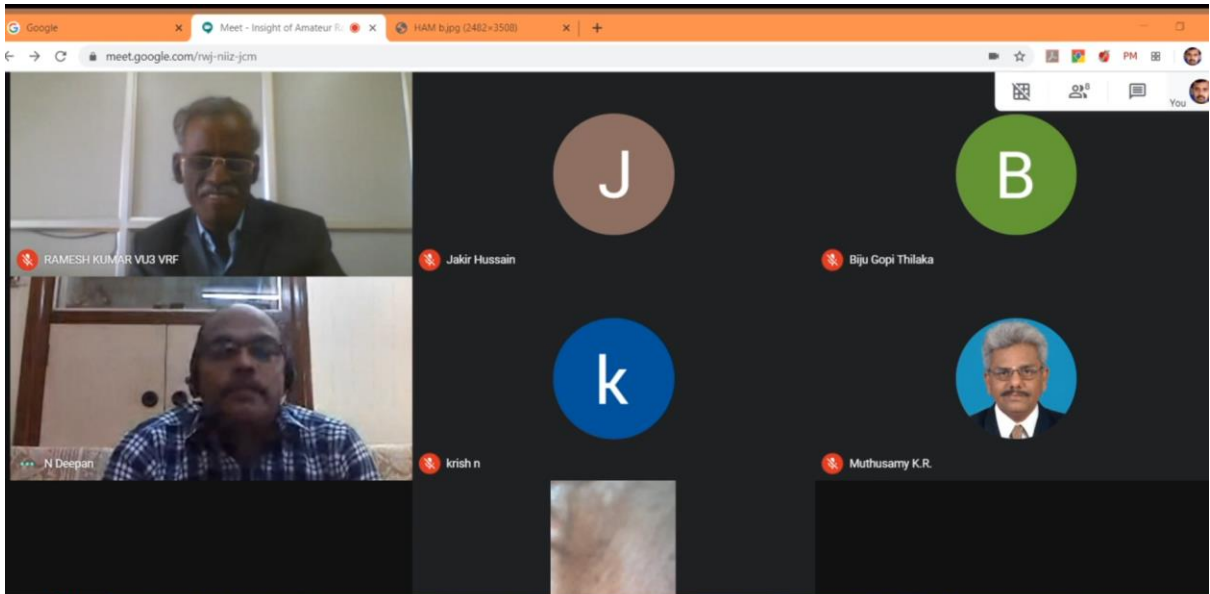
RAMESH KUMAR VU3 VRF is presenting


Automatic Packet Reporting System - APRS

Indicators Club "Insight of Amateur Radio & Robotics" OM.V.Ramesh kumar, VU
 Department of Electronics and Communication Engineering, KPR Institute of Engin



 OM.M.Karthikeyan, VU2MOT, Director, Integral Control Systems & Advanced Robotics and Communication Engineering, KPR Institute of Engineering and Technology



 Robotics" OM.N.Deepan, VU2DPN, Technical Manager, AVM Studio, Chennai
Dr.M.G.Sumithra, Professor & Head/ECE & OM.G.K.Jakir Hussain, VU3JKU, A