

## REGISTRATION FORM

Attendee Name: \_\_\_\_\_

Institution Name: \_\_\_\_\_

Mobile: \_\_\_\_\_

Email: \_\_\_\_\_

Transaction ID: \_\_\_\_\_ Date: \_\_\_\_\_

### Registration Details:

Registration Fee; Rs 1000

Mode of Payment: Online

Account Name:

New Horizon College of Engineering

Account Number: 484700078

IFSC: IDIB000N112

Branch: New Horizon College of Engineering

### NOTE

- 1.Limited registrations available
- 2.Registration on first come first serve basis
- 3.Check the registration link before payment
- 4.Laptops are recommended
5. Target Audience: Faculty members, Post and Under Graduate Scholars..
- 6.For registration queries please contact:  
Dr.M Dhivya - +91- 8148361129 /Mrs M S Shobha-+91-8867544828

REGISTRATION LINK AND QR CODE



<http://tiny.cc/FDPNHCE>

## CHIEF PATRON

Dr. Mohan Manghnani

Chairman, New Horizon Educational Institutions

## PATRON

Dr. Manjunatha

Principal, New Horizon College of Engineering

## CO PATRONS

Dr. Prashanth C.S.R

Dean Academics

Dr. M. S Ganesha Prasad,

Dean & HOD MECH,

Dr. K Gopalakrishnan

Dean Research & Development

## CONVENERS

Dr. Sanjeev Sharma

Professor and HOD, Department of  
Electronics and Communications, NHCE

Dr. R.J Anandhi

Professor and HOD,  
Department of Information  
Science and Engineering, NHCE

Mr. Ranjan Manish

Head Industry Institute Interaction Cell

## COORDINATORS

Dr.Reema Sharma  
Associate Professor,ECE

Dr.M Dhivya  
Associate Professor,ECE

Dr.P.Mangayarkarasi  
Associate Professor,ISE

Mrs. M.S Shoba  
Sr. Assistant Professor,ISE



# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA



in collaboration  
with



presents

**3 DAYS FACULTY DEVELOPMENT PROGRAM ON  
CYBER SECURITY AND DIGITAL FORENSICS**

**12<sup>TH</sup> - 14<sup>TH</sup> DECEMBER 2019**



Department of

**Electronics and Communication Engineering  
&  
Information Science and Engineering**

VENUE - FALCONRY SEMINAR HALL,  
NEW HORIZON COLLEGE OF ENGINEERING, Ring  
Road, Near Marathalli, Bangalore - 560 103, INDIA

[www.newhorizonindia.edu](http://www.newhorizonindia.edu)

## ABOUT NHCE

New Horizon College of Engineering is an Autonomous college affiliated to Visvesvaraya Technological University(VTU), approved by the All India Council for Technical Education(AICTE) & University Grants Commission(UGC). It is one of the top Engineering Colleges in India as per NIRF rankings – 2018 and an ISO 9001:2008 certified Institution. New Horizon college of Engineering is located in the heart of the IT capital of India, Bangalore. The college campus is situated in the IT corridor of Bangalore surrounded by MNCs and IT giants such as Intel, Accenture, Capgemini, ARM, Symphony, Wipro, Nokia, JP Morgan and Cisco to name a few.

## ABOUT DEPARTMENTS

### Department of Electronics and Communication

The Department of Electronics and Communication is accredited by the National Board of Accreditation (NBA). The field of Electronics and Communication Engineering is one that offers a whole new world of exciting challenges and opportunities. The Department has interactive classrooms and laboratories with latest equipment for students to experiment. The Department also offers the VTU research center for Ph.D. and M.Sc. (Engg.), for research. Various workshops, seminars, competitive events, conferences and industrial visits for our students are also organized on a regular basis.

### Department of Information Science and Engineering

The Department of Information Science and Engineering at NHCE was established in the year of 2001 and offers graduate and Ph.D programs and Accredited by National Board of Accreditation(NBA) . The four year B.E degree equip the students to meet day- to- day Technological advancements of the ever dynamic IT field through adept training on various subjects of curriculum of Information Science and Engineering and beyond. The department offers B.E program through autonomous scheme from the year 2015. The department has a total intake of over 380 students with a very good team of highly qualified and talented faculty members including Professors, Associate Professors and Assistant Professors.

## PREAMBLE

Cyber-attacks skyrocketed in 2018 and 2019. Are we ready to deal with it in 2020? Cyber-attacks are increasing worldwide and in addition to data thefts, sensitive information can also be collected by countries. Cyber-attacks can be unanticipated, or in some cases be so secret, that they can remain concealed for longer time. To tackle these emerging threats, we need to develop our skills accordingly to overcome these attacks. The main aim of this faculty development program is to stimulate research aspects in cyber security which includes information, network and data security. It will help in understanding current internet security techniques and learning relevant tools available for network and data protection from cyber-attacks with demonstration.

This FDP is planned to cover an overview of cryptographic attacks and algorithms, concepts related to data security monitoring and demonstration of relevant tools which will help the audience understand importance of these aspects in real life scenarios.

## OBJECTIVES OF THE PROGRAMME

- To train the participants in theoretical and practical concepts of internet security to help the audience understand importance of cyber security aspects in real life scenarios.
- To get acquainted with relevant cyber security tools
- To provide Hands-on Training to configure Cisco firewall technologies

## ELIGIBILITY:

- The program is open to all the faculties from various Engineering Colleges, and MCA Colleges.
- Preference will be given to dynamic faculty members who are currently engaged in research and industry practices.
- Selections will be made on first come first serve, shortlisted names will be intimated via e-mail.
- Faculty members interested in attending the FDP should strictly submit the registration form filled in on or before **10th December 2019**.

## ADVISORY COMMITTEE

- Dr. Sridhar Kurse, Prof & HOD-AU, NHCE
- Dr. Anandha Varhan, Prof & HOD-BT, NHCE
- Dr. B Rajalakshmi, Prof & HOD-CSE, NHCE
- Dr. P.S Niranjan, Prof & HOD -CIV, NHCE
- Dr. Ramkumar , Prof & HOD-EEE , NHCE
- Dr. Sheelan Mishra, Prof and HOD- MBA, NHCE
- Dr. Asha. Prof & HOD-MCA, NHCE

## AGENDA FOR FDP

### DAY 1 - 12TH DECEMBER 2019

#### 9:15 AM - 11:00 AM -

- Introduction to Cryptographic Attacks and Algorithms

#### 11:15 AM - 1: 00 PM

- Protocols and Concepts related to Data Monitoring

#### 2:00 PM - 3:00 PM

- VPN Technology and Cryptography

#### 3:15 PM - 4:45 PM

- Demo of Relevant Tools

### DAY 2 - 13TH DECEMBER 2019

#### 9:15 AM - 11:00 AM

- Understand, Implement and configure CISCO firewall technologies

#### 11:15 AM - 1: 00 PM

- CISCO IPS and SNORT Tools Attack Methods

#### 2:00 PM - 3:00 PM

- Basic Concept of Securing Web Applications from Attacks

#### 3:15 PM - 4:45 PM

- Mitigation Technologies for E-Mail, Web Based and Endpoint Threats

### DAY 3 - 14TH DECEMBER 2019

#### 9:15 AM - 1:00 PM

- Introduction to Digital and Data Forensics, Demonstration and Implementation.

#### 2:00 PM - 3:00 PM

- Wireless Security and IoT Security

#### 3:15 PM - 4:45 PM

- IoT Threats and Security in IoT / M2M



# NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

## Departments of Electronics and Communication & Information Science and Engineering

*Report on "Three Days Faculty Development Program in collaboration with CISCO on  
Cyber Security and Digital Forensics"*

The Departments of Electronics and Communication Engineering and Information Science and Engineering of New Horizon College of Engineering in collaboration with CISCO is conducted a three days FDP (Faculty Development Programme) on "**CYBER SECURITY AND DIGITAL FORENSICS**" from **12<sup>th</sup> Dec to 14<sup>th</sup> December, 2019** at our campus.

Cyber-attacks are increasing worldwide and in addition to data thefts, sensitive information can also be collected by countries. Cyber attacks can be unanticipated, or in some cases be so secret, that they can remain concealed for longer time. To tackle these emerging threats, we need to develop our skills accordingly to overcome these attacks. The main aim of this faculty development program was to stimulate research aspects in cyber security which includes information, network and data security. It helped participants in understanding current internet security techniques and learning relevant tools available for network and data protection from cyber attacks with demonstration. It also covered an overview of cryptographic attacks and algorithms, concepts related to data security monitoring and demonstration of relevant tools which will help the audience understand importance of these aspects in real life scenarios.



The resource persons are from the premier networking company CISCO. **Eminent personalities from CISCO(09 Speakers for various sessions)** have taken the sessions on CISCO firewall, web security , Digital Forensics, Mitigation technologies for E-mail, Web based end point threats, Research in Cyber Security, IoT/M2M security etc.



**NEW HORIZON**  
COLLEGE OF ENGINEERING

DEPARTMENT OF ECE & ISE  
IN COLLABORATION WITH

Faculty Development Program  
on  
**CYBER SECURITY & DIGITAL FORENSICS**  
12<sup>th</sup> - 14<sup>th</sup> December 2019

**WELCOMES**



**SHRI. SUBODH GAJARE**  
Lead Architect (Service Provider, IoT Enterprise AI/ML Security)  
Cisco R&D center , Bangalore

### **Objectives of the FDP:**

The main aim of this faculty development program is to stimulate research aspects in cyber security which includes information, network and data security. It will help in understanding current internet security techniques and learning relevant tools available for network and data protection from cyber-attacks with demonstration.

- To train the participants in theoretical and practical concepts of Internet security
- To help the audience understand importance of cyber security aspects in real life scenarios
- To get acquainted with relevant cyber security tools

- To provide Hands-on Training to configure Cisco firewall technologies

**Details of the Program (From Introduction to conclusion)**

<b>Date/Time</b>	<b>12th December 2019 (Thursday)</b>	<b>13th December 2019 (Friday)</b>	<b>14th December 2019 (Saturday)</b>
<b>10.00 AM to 11:00 AM</b>	<b>Inauguration Function (Falconry)</b> Mr. Subodh Gajare Lead Architect, CISCO	<b>Introduction to Digital and Data Forensics – Demonstration and Implementation</b>  Mr.Shyam Sundar Ramaswami Security Research Lead -India & Malware Analyst, CISCO	<b>IoT / M2M Security</b>  Mr.Saravanan Radhakrishnan Distinguished Engineer CISCO
<b>11.00AM to 11.15 AM</b>	<b>TEA BREAK</b>		
<b>11:15 AM to 1:00 PM</b>	<b>Understand, Implement and configure CISCO firewall</b>  Mr.Ashok Kumar Murugan InfoSec Engineer CISCO	<b>Mitigation Technologies for E-Mail, Web Based and Endpoint Threats</b>  Mr.Raghunath Kulkarni Technical Services Engineer, CISCO and Mr.Shyam Sundar Ramaswami Security Research Lead -India & Malware Analyst, CISCO	<b>IoT / M2M Security</b>  Chetan S CEO and Co-Founder - Aikaan Labs
<b>1.00 to 2.00 PM</b>	<b>LUNCH BREAK</b>		
<b>2:00 PM to 3:15 PM</b>	<b>Basic Concept of Securing Web Applications from Attacks</b>  Mr.Srivatsa M S Software Engineer, Security Business Group, CISCO	<b>VPN technology and Cryptography</b>  Mr.Nitin Dhingra Technical Lead, CISCO & Ms.Tazy Khan Technical Consulting Engineer, CISCO	<b>Security – from Endpoints to Cloud</b>  Mr.Prapanch Ramamoorthy, Engineer, Customer Support, CISCO  Mr.Raghunath Kulkarni Technical Services Engineer CISCO

			& Mr. Subodh Gajare Lead Architect, CISCO
<b>3.15 PM to 3.30 PM</b>	TEA BREAK		
<b>3:30 PM to 4:45 PM</b>	<b>A Brief of CISCO CoE @ NHCE</b>  Ms.Divya Sharma, AP/ECE, NHCE Dr.Reema Sharma, ASP/ECE, NHCE	<b>Cisco IPS and SNORT Tool Attack Methods</b>  Mr.Raghunath Kulkarni Technical Services Engineer, CISCO	<b>Valedictory Function</b>  Mr. Subodh Gajare Lead Architect, CISCO

### Resource Person Details with Profile:

#### Mr. Subodh Gajare

**Current role:** Lead Architect (Service Provider, IoT Enterprise AI/ML Security) Cisco R&D center (Blore)

#### Core experience (15 years at Cisco):

Platform Development, testing, validation, designing, operations and developing solutions across technologies. Designing and implementing solutions for global customers – based on SDN/NFV, IoT, Mobility (3G to 5G transformation), Security, Virtualization, Cloud, designing s/w Orchestration platforms for end-2-end management of networks. Subodh is responsible for designing and delivering IoT industry solutions – in Digital Manufacturing, Smart Cities, Health care, Education, Energy and Transportation. He works as advisor for grooming future Technical leaders/Architects in Cisco. He represents Cisco at Cisco Live in Asia , Europe & US for past 14 years. He has authored over 75 technical papers for Cisco platforms and architectures. He has coauthored 6 patents in areas of AI/ML framework, Optical solutions and SDN/NfV. He speaks at Cisco Technical leadership Forum globally and in industry events for SDN, IPNGN, IoT , Mobility and Security. He is highly engaged with SDO bodies and academia worldwide for developing open standards in IoT, SDN, 5G and Mobility. He is

recognised as a IEEE ComSoc Distinguished Engineer for his contributions in 5G, IoT , Cloud and Mobility.

### **Shyam Sundar Ramaswami**

Digital Detective | GREM | TEDx Speaker | Security Research Lead -India & Malware Analyst  
@ Cisco Systems

Shyam Sundar Ramaswami is a security researcher in Cisco Umbrella Research Org. Shyam is a TEDx speaker, GREM certified malware analyst, Cisco security ninja black belt and teaches cyber security using his favourite “Batman” character. He runs a “Being Robin” mentoring program where he has 300 + students all over the globe. He also solved child nabbing cases using his concept of “Social Media Forensics”. Shyam also teaches in International Institute of Digital Technology as a visiting professor.

### **Tazy Khan**

Technical Consulting Engineer at Cisco

Experienced Customer Support Engineer with a demonstrated history of working in the computer networking industry. Skilled in VPN technologies (Site to Site VPN,Anyconnect ,DMVPN,GETVPN) and strong background in coding using PHP, python and C++. Network enthusiast with an active CCIE in Security (CCIE#59081) and experience on Next Generation Firewalls (ASA,FTD), Routers ,Switches.

### **Mr.Ashok Kumar Murugan**

Experienced Specialist with a demonstrated history of working in IT Security industry. Skilled Solution Architect with broad knowledge in Implementing and managing security environment with effective security standards and devices like Checkpoint, Cisco, Juniper,Mcafee next generation firewalls and proxies like Bluecoat, webgateway and websense, IPS/IDS and Network Access Control (NAC). Strong professional with a Bachelor

of Engineering (B.E.) focused in Computer Science from Hindusthan college of Engineering and Technology.

**Mr.Prapanch Ramamoorthy**

Mr. Prapanch Ramamoorthy is an Engineer, Customer Support, CISCO. His area of interest are Troubleshooting ASA firewalls, understanding firewall architecture/FWSM architecture, troubleshooting CPU issues, understanding failover , CSC-SSM vs ASA-NGFW

**Mr.Srivatsa M S**

Mr. Srivatsa is Software Engineer, Security Business Group, CISCO. He is working with SBG which is a group who design and tests security solutions. He is mainly involved in research activities, writing papers and filing patents.

**Raghunath Kulkarni**

Mr. Raghunath Kulkarni is Technical Services Engineer at Cisco Systems. He has filed several patents and his area of expert is dealing with cyber crime issues

**Nitin Dhingra**

Mr. Nitin Dhingra is Technical Leader at Cisco. His area of interest are Virtual Private Network and cryptography.

**Sarav Radhakrishnan**

Sarav Radhakrishnan is a Distinguished Engineer and a 17 year Cisco veteran whose worked on a number of products and solutions during his tenure in Cisco.

Sarav is the architecture lead for the highly profitable catalyst switching portfolio while also being a linchpin in setting product and technology direction across a wide variety of cross-cutting initiatives in Cisco.

He has a proven track record of driving innovation in the portfolio and productizing the innovations in shipping products.

He is a very impactful engineering leader and has been instrumental in mentoring and developing a large population of engineering talent across Cisco.



He's current research and development interests include security, wireless, QoS, LiFi, virtualisation and machine learning.

### **Chetan Kumar**

Chetan Kumar is the co-founder and CEO of Aikaan Labs, an edge computing company that helps customers with performance management of edge applications and infrastructure.

Chetan has close to 20 years of experience working in the corporate sector and startups in the internet and systems industry. Chetan has managed large engineering teams in the areas of Ethernet switching, security services, quality of service and applications.

Chetan has Master of Science degree in electrical and communication engineering from India Institute of Science and Bachelor of Science in electrical and communication engineering from Mysore University, India.

### **Divya Sharma**

Divya Sharma is currently working as Senior Assistant Professor in the Department of ECE, New Horizon College of Engineering, Bangalore. She is a globally certified Cisco Instructor for CCNA. She has received Best Performance award in Global IPD's during Cisco Annual Conference in Feb 2019. Currently she is pursuing her reserach in the area of Internet of Things and data communication..

### **Dr. Reema Sharma**

Dr Reema Sharma's is currently working as Associate Professor in the Department of ECE, New Horizon College of Engineering, Bangalore. She is an active ComSoc IEEE members for a long time. Her research interests focus on Internet of Things, Network QoS-QoE improvement, Multimedia Communication, Wireless networks, Data Communication and Networking. She has published her work in prestigious conferences/workshops like IEEE Globecom, IEEE International Region 10 Symposium 2015, ELSEVIER and SPRINGER. 3 of her papers got best paper award from IEEE 18th WMC 2015, Springer EAI UBICNET 2018. She also received IEEE All India Young Achievers Award for Humanitarian

(AIYEHUM) 2014. She has over 12 publications in peer reviewed journal and conference proceeding. Reema is dedicated, hardworking and bright young professional. She has exposed a unique career path since the very beginning of her PhD. Her contributions to the field of Network QoS in Internet of Things by designing a mathematical model for packet scheduling scheme in IoT are highly cited showing excellent analytical research work.

### **Details of the Program**

#### **Day-1**

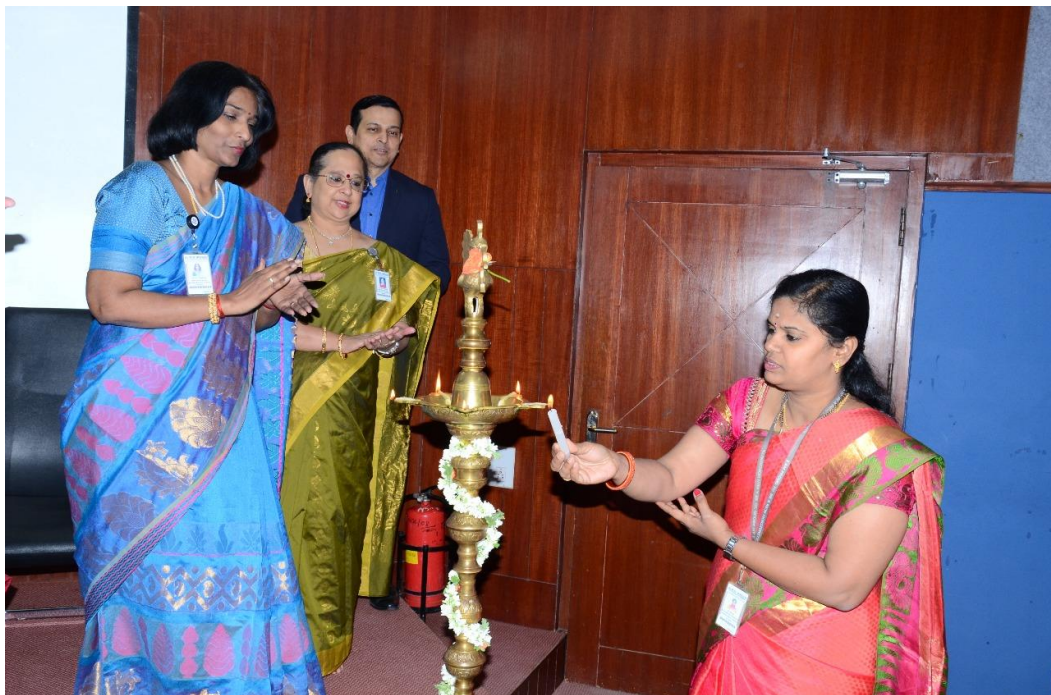
Inauguration Function started at 10:00 am in Falconry ,where the guest of honor , **Mr Subodh Gajare ,Lead Architect (Service Provider, IoT Enterprise AI/ML Security) Cisco R&D center (Blore)** with the core experience of 15 years at Cisco initiated the program by lightening the lamp along with **Dr Prashanth Dean of Acadamecis, Dr Anandhi R J HOD-ISE, Dr Rajalakshmi HOD-CSE.**



The session was kick started by **Mr Subodh Gajare** with his key note address,



followed by **Mr.Ashok Kumar Murugan** ,InfoSec Engineer,CISCO on Understand, Implement and configure CISCO firewall.Followed by lunch **Mr.Srivatsa M S** Software Engineer, Security Business Group, CISCO briefed about of Securing Web Applications from Attacks.





Later A Brief of CISCO CoE @ NHCE was given by **Ms.Divya Sharma, AP/ECE, NHCE & Dr.Reema Sharma, ASP/ECE, NHCE**

## Day-2

Second day session begin with high energy and enthusiasm given by **Mr. Shyam Sundar Ramaswami** on Security Research Lead -India & Malware Analyst, CISCO .



Introduction to Digital and Data Forensics with live case studies , Demonstration and Implementation. Later Mitigation Technologies for E-Mail, Web Based and Endpoint Threats was covered by **Mr. Raghunath Kulkarni**, Technical Services Engineer, CISCO and **Mr. Shyam Sundar Ramaswami** Security Research Lead -India & Malware Analyst, CISCO.



Post lunch session was continued by **Mr.Nitin Dhingra** Technical Lead, CISCO & **Ms.Tazy Khan** Technical Consulting Engineer, CISCO on VPN technology and Cryptography Cisco IPS and SNORT Tool Attack Methods.followed by **Mr.Raghunath Kulkarni** Technical Services Engineer, CISCO on Cisco IPS and SNORT Tool Attack Methods.



### **Day-3**

Focus of third day of the faculty development program on cyber security and digital forensics was on IoT / M2M Security delivered by eminent personalities **Mr.Saravanan Radhakrishnan**, Distinguished Engineer,CISCO and Chetan S CEO and Co-Founder - Aikaan Labs.



After the Lunch session was carried out by panel of members **Mr.Prapanch Ramamoorthy**, Engineer, Customer Support, CISCO, **Mr.Raghunath Kulkarni** Technical Services Engineer, CISCO & **Mr. Subodh Gajare Lead Architect, CISCO** on Security – from Endpoints to Cloud.



Finally the FDP ended with various group discussions and winded up with the Valedictory Function taken forward by **Mr Ranjan Manish ,Head IIIC,NHCE,Dr R J Anandhi Head ISE Dept,Dr Sanjeev Sharma Head ECE Dept.**



The FDP was successfully completed with a satisfactory and **positive feedback** from audience. This FDP enriched the Knowledge of faculties through interaction with eminent personalities from CISCO . The knowledge sharing will improve the teaching learning process to the students and inturn benefit the society.







Certificate Distribution:





Through this FDP faculties got **exposure to:**

- theoretical and practical concepts of **internet security**
- importance of **cyber security aspects in real life scenarios.**
- acquainted with relevant **cyber security tools**
- Hands-on Training to configure **Cisco firewall technologies.**

Glimpses of Event:











**NEW HORIZON  
COLLEGE OF ENGINEERING**

**DEPARTMENT OF ECE & ISE**

IN COLLABORATION WITH






Faculty Development Program  
on

**CYBER SECURITY & DIGITAL FORENSICS**

12<sup>th</sup> - 14<sup>th</sup> December 2019

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**SPECIAL THANKS TO**

<p>MS.PRIYANKA BHAGATH, HEAD, UNIVERSITY RELATIONS, ASIA, ASEAN, CISCO</p>	<p>MR.SAMRUDH JAGADEESH, UNIVERSITY RECRUITMENT LEAD, CISCO, INDIA</p>	<p>MR. SUBODH GAJARE SENIOR SOLUTIONS ARCHITECT, CISCO</p>	<p>MS.SOUMYA VJAYALAKSHMI ENGINEERING MANAGER CISCO</p>
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**THANKS TO ALL OUR SPEAKERS**

<p>MR.ASHOK KUMAR MURUGAN INFOSEC ENGINEER CISCO</p>	<p>MR.SRIVATSA M S SOFTWARE ENGINEER, SECURITY BUSINESS GROUP, CISCO</p>	<p>MR.SHYAM SUNDAR RAMASWAMI SECURITY RESEARCH LEAD INDIA &amp; MALWARE ANALYST, CISCO</p>	<p>MR.RAGHUNATH KULKARNI TECHNICAL SERVICES ENGINEER, CISCO</p>	<p>MR.NITIN DHINGRA TECHNICAL LEAD, CISCO</p>
<p>MS.TAZY KHAN TECHNICAL CONSULTING ENGINEER, CISCO</p>	<p>MR.RAGHUNATH KULKARNI TECHNICAL SERVICES ENGINEER, CISCO</p>	<p>MR.SARAVANAN RADHAKRISHNAN DISTINGUISHED ENGINEER CISCO</p>	<p>MR.PRAPANCH RAMAMOORTHY, ENGINEER, CUSTOMER SUPPORT, CISCO</p>	<p>MR.RAGHUNATH KULKARNI TECHNICAL SERVICES ENGINEER, CISCO</p>

From

**Dr. Sanjeev Sharma & Dr. B. Rajalakshmi B**

**HOD-ECE & HOD-CSE**

New Horizon College of Engineering,

Bangalore-560103

02/06/2020

To

The Principal

New Horizon College of Engineering,

Bangalore-560103

Respected Sir,

**Sub: Five days Online Faculty Development Program** on “Image & Video processing Techniques using Python Programming” during **15<sup>th</sup> June to 20<sup>th</sup> June 2020 -Reg**

We have planned to conduct a five days Online Faculty Development Program on “Image & Video processing Techniques using Python Programming” during 15<sup>th</sup> June to 20<sup>th</sup> June 2020 in association with IETE Students Forum (ISF) and Computer Society of India (CSI). This Online FDP is open to all the faculties and researchers working in various colleges and universities of India.

**Registration fee** would be **Rs 200/- per participant** and paid through online. The FDP will be conducted through the **Digital Platform** enables the participants to get connected with experts and speakers.

**About the FDP:**

- To understand the image & video processing by using Python Programming.
- To help the faculties, academicians and researchers to apply the Python imaging library (pillow) To develop various projects like Face Recognition, color Identification Robot and So on

The purpose of this FDP is to help to understand and build their Image & Video Processing Projects using OpenCV. OpenCV and Tesseract are also implement on Raspberry Pi for image processing project.

Kindly grant us the permission for the same.



**HOD-ECE**



Department of Electronics and Communication Engineering & Department of Computer Science and Engineering

FIVE DAYS ONLINE FACULTY DEVELOPMENT PROGRAM



Mr. Ganesh Attarde Founder, GB Softronics Solutions

IMAGE & VIDEO PROCESSING TECHNIQUES USING PYTHON PROGRAMMING



In association with The Institution of Electronics and Telecommunication Engineers (IETE), & Computer Society of India - Region V NHCE Student Branch, CSI Bangalore Chapter.



15th June to 19th June 2020

Convener

Dr. Sanjeev Sharma Professor & HOD-ECE

Dr. B. Rajalakshmi Professor & HOD-CSE CSI NHCE Student Branch Counsellor hod\_cse@newhorizonindia.edu

Coordinators

Dr. Piruthiviraj P Associate Professor, +91 9741884914

Mr. Santosh Kumar B Sr. Assistant Professor, +91 9342995348

e - Certificate will be provided for registered participants for those who attend all the sessions

Registration Fee: 200

Scan for Payment Gateway



Scan for Registration



Timestamp	Email Address	NAME	DESIGNATION
6/5/2020 16:52:12	bojamma@sjc.ac.in	A.M.Bojamma	Assistant Professor
6/5/2020 17:36:02	gmadhans21@gmail.com	MADHAN KUMAR G S	ASSISTANT PROFESSOR
6/5/2020 22:21:03	mamta.savadatti@gmail.com	MAMTA B SAVADATTI	ASSISTANT PROFESSOR
6/6/2020 10:19:07	sonalisurya@rediffmail.com	Sonalee Suryawanshi	Assistant Professor
6/6/2020 10:28:06	vijupushpendra@gmail.com	V. VIJAYALAKSHMI	Research Scholar
6/6/2020 10:45:16	madhura.prakash5@gmail.com	Madhura Prakash M	Assistant Professor
6/6/2020 15:46:59	shilpa.may23@gmail.com	SHILPA	Asst Proff
6/6/2020 20:14:07	veenacsevemana@gmail.com	Veena G	Assistant Professor
6/7/2020 15:17:27	haseeba@gat.ac.in	HASEEBA YASEEN	Assistant Professor
6/7/2020 15:45:56	rtaseen2017@gmail.com	Rakheeba Taseen	Assistant professor
6/7/2020 16:24:30	mrb.csebec@gmail.com	RAJESH BABU MOVVA	Assistant professor
6/7/2020 16:30:32	rlavanya601@gmail.com	Lavanya Ravi	Assistant professor
6/7/2020 20:42:21	turakasowmya@gmail.com	Ms. TURAKA SOWMYA	ASSISTANT PROFESSOR
6/7/2020 21:24:33	mutyalu.asadi@gmail.cim	Asadi Venkata mutyalamm	Asst professor
6/7/2020 21:59:30	latha.emmela@gmail.com	SUMALATHA EMMELA	Assistant Professor
6/7/2020 22:17:26	emmela.suneetha@gmail.com	Suneetha Emmela	Assistant Professor
6/8/2020 10:14:29	sowmya19783003@gmail.com	Sowmya K S	Associate Professor
6/8/2020 11:43:33	prabakar.ece@sairamce.edu.in	Dr. T. N. Prabakar	Professor
6/8/2020 12:05:59	kiranhsn@vvce.ac.in	KIRAN	ASSISTANT PROFEESO
6/8/2020 13:04:38	s.talatule@jit.org.in	Samta Dilip Talatule	Assistant Professor
6/9/2020 9:56:40	abhimanyu_vec@bbdnitm.ac.in	Dr.Abhimanyu Kumar Yad	Assistant Professor
6/9/2020 11:48:35	prasannakm13@gmail.com	Prasanna Kumar M	Asst. Prof
6/9/2020 12:05:13	ashishji2079@gmail.com	Dr. Ashish B. Jirapure	Assistant Professor
6/9/2020 14:38:29	chethanreddybit@gmail.com	Chethan Kumar N S	Asst professor
6/9/2020 14:41:42	lokesh4010@gmail.com	LOKESH B	Asst Professor
6/9/2020 15:02:29	chandrujs21@gmail.com	CHANDRASHEKAR	Asst Professor
6/9/2020 15:13:08	poornima5kvs@gmail.com	POORNIMA K V S	Asst Professor
6/9/2020 15:45:40	nikhilvditec@gmail.com	Nikhil A.Kulkarni	Assistant Professor
6/9/2020 16:28:34	navingowda.321@gmail.com	Dr. Naveen B	Associate Professor
6/10/2020 13:10:23	sudheesh.kv@vvce.ac.in	SUDHEESH K V	Assistant Professor
6/10/2020 14:44:11	ranjankiran03@gmail.com	KIRAN B	ASST. PROF
6/10/2020 15:14:15	sandeep.ece@vvce.ac.in	Dr. Sandeep R	Associate Professor
6/10/2020 16:29:51	sharathkumar.aj@vvce.ac.in	SHARATH KUMAR A J	Assistant Professor
6/10/2020 16:58:57	sanjivkumar.jain@medicaps.ac.in	Sanjiv Kumar Jain	A.P.
6/10/2020 18:56:55	kavithalawrencekishore@gmail.com	D.KAVITHA	ASSISTANT PROFESSOR
6/10/2020 22:25:20	thejaswinih90@gmail.com	THEJASWINI H	Assistant professor
6/11/2020 9:54:12	chethank@vvce.ac.in	CHETHAN K	Assistant Professor
6/11/2020 9:58:53	geethashree.a@vvce.ac.in	Dr. Geethashree A	Associate Professor
6/11/2020 10:03:40	kirankumarhumse@vvce.ac.in	KIRAN KUMAR HUMSE	Assistant Professor
6/11/2020 10:52:27	mahadevaswamy@vvce.ac.in	MAHADEVASWAMY	ASSISTANT PROFESSOR
6/11/2020 12:02:49	alfreddsouza@vvce.ac.in	Alfred Vivek D'Souza	Assistant Professor
6/11/2020 12:05:57	rohith.k@vvce.ac.in	ROHITH K	Assistant Professor
6/11/2020 15:25:49	mudit.coonia@gmail.com	Mudit Chaudhary	Assistant Professor



6/11/2020 16:39:17 uma48827513@gmail.com	V UMAMAHEWAR RAO	ASSISTANT PROFESSOR
6/11/2020 19:13:36 pramodpatil.ece@hsit.ac.in	PRAMOD PATIL	Assistant Professor
6/12/2020 10:04:21 roopa.0303@gmail.com	ROOPA B S	Associate Professor
6/12/2020 10:08:50 dbit.ktrashmi@gmail.com	Rashmi KT	Asst. Prof
6/12/2020 11:52:08 mishra.ishani@gmail.com	Ishani Mishra	Sr. Assistant Professor
6/13/2020 10:00:28 rohinibr.dbit@gmail.com	Rohini B R	Assistant professor
6/13/2020 10:54:56 yashu.giri2008@gmail.com	Yashaswini B M	Assistant Professor
6/13/2020 11:54:33 vinaka.dbit@gmail.com	Vinaka Deepak Halbhavi	Assistant Professor
6/13/2020 15:44:21 pushpalatha-ece@dayanandasag	Dr. Pushpalatha K N	Associate professor
6/13/2020 19:01:24 sapnanoorithaya@gmail.com	Sapna P J	Asst Professor
6/13/2020 19:45:55 smruthi.sumesh@gmail.com	Smruthi nair	ASST PROF
6/13/2020 21:47:17 aruramesh27@gmail.com	Arvind R	Assistant professor
6/13/2020 21:56:45 aparna09prasad@gmail.com	Aparna N	Assistant professor
6/13/2020 22:03:13 suparna.kvg@gmail.com	Suparna K	Assistant professor
6/13/2020 22:08:29 manju4christ@gmail.com	V N MANJU	Assistant professor
6/14/2020 20:03:23 punithashp@gmail.com	Dr. Puneeth Kumar B S	Assistant Professor
6/14/2020 22:54:02 shruthirenuka99@gmail.com	Mrs.Shruthi K M	Assistant professor
6/15/2020 10:58:42 RAJESHWARIM@BIT-BANGALC	Dr M.Rajeswari	Associate Professor

	prithivi.eie@gmail.com	Dr PIRUTHIVIRAJ P	Associate Professor
	santoshkumarcsehnce@gmail.co	SANTOSH KUMAR B	Senior Assistant professor

COLLEGE	DEPARTMENT
St.Joseph's College,Autonomous	Computer Science
MAHARAJA INSTITUTE OF TECHNOLOGY THANDAVAPURA	INFORMATION SCIENCE
NEW HORIZON COLLEGE OF ENGINEERING	ELECTRONICS AND COM
LPU	ECE
New Horizon College of Engineering	ECE
BNM INSTITUTE OF TECHNOLOGY	Information science and E
Gopalan College of Engineering and Management	CSE
Vemana Institute of Technology	CSE
GLOBAL ACADEMY OF TECHNOLOGY	COMPUTER SCIENCE AI
HKBK college of Engineering	Information science and E
BAPATLA ENGINEERING COLLEGE, BAPATLA	COMPUTER SCIENCE EI
BAPATLA WOMEN'S ENGINEERING COLLEGE,BAPATLA	ECE
BAPATLA WOMEN'S ENGINEERING COLLEGE	ECE
Bapatla women's Engineering college	ECE
BAPATLA WOMEN'S ENGINEERING COLLEGE	ECE
Bapatla Women's Engineering College	ECE
Don Bosco Institute of Technology	Electronics and communic
Sri Sairam college of Engineering	ECE
VIDYAVARDHAKA COLLEGE OF ENGINEERING, MYSURU	ELECTRONICS AND COM
Jhulelal Institute of Technology	Electronics & Telecommur
BBDNITM LUCKNOW	ECE
Dr. Ambedkar Institute of Technology	Electronics and Instrument
Priyadarshini College of Engineering, Nagpur	E & TC
CBIT	ECE
CBIT KOLAR	ECE
CBIT KOLAR	ECE
CBIT KOLAR	ECE
KLS's VDIT, Haliyal	Electronics & communicat
BGS INSTITUTE OF TECHNOLOGY, ADICHUNCHANAGIRI UN	Electronics and Communio
Vidyavardhaka College of Engineering, Mysuru	Electronics and Communio
ATME COLLEGE OF ENGINEERING	CSE
Vidyavardhaka College of Engineering, Mysuru	Electronics and Communio
Vidyavardhaka College of Engineering ,Mysuru	Electronics and Communio
Medi-Caps University Indore	EED
MVJCE	ECE
Vijaya vittala institute of technology	Computer science and eng
Vidyavardhaka College of Engineering, Mysuru	Electronics and Communio
Vidyavardhaka College of Engineering, Mysuru	Electronics and Communio
Vidyavardhaka College of Engineering	Electronics and Communio
VIDYAVARDHAKA COLLEGE OF ENGINEERING	ELECTRONICS AND COM
Vidyavardhaka College of Engineering	Electronics and Communio
Vidyavardhaka college of engineering, Mysuru	Electronics and Communio

RVIT Bijnor

Computer science and eng

VEMU INSTITUTE OF TECHNOLOGY	ELECTRONICS AND COM
HSIT NIDASOSHI	ECE
DBIT	ECE
DBIT	ECE
New Horizon college of engineering	Electronics and Communic
Don Bosco Institute of Technology	CSE
Don Bosco Institute of Technology	CSE
Don Bosco Institute of Technology	CSE
Day Amanda Sahara C college of Engineering	ECE
Dayananda Sagar College of engg	ECE
Gopalan College of Engineering and Management	CSE
Gopalan College of engineering and management	Computer science and Eng
Gopalan College of engineering and management	Computer science and Eng
Gopalan College of engineering and management	Computer science and Eng
Gopalan College of engineering and management	Computer science and Eng
St.Joseph	Computer Science
NDRK institute of technology,Hassan	Electronics and communic
Bangalore Institute of Technology	Electronics & Telecommur
NEW HORIZON COLLEGE OF ENGINEERING, BANGALORE	ECE
NEW HORIZON COLLEGE OF ENGINEERING, BANGALORE	CSE

**New Horizon College of Engineering**  
**Department of Electronics and Communication Engineering**  
**&**  
**Department of Computer Science and Engineering**

Five days Online Faculty Development Program on  
“Image & Video processing Techniques using Python Programming”

**15<sup>th</sup> June to 20<sup>th</sup> June 2020**

The Department of ECE and CSE had organized Five days Online Faculty Development Program on “Image & Video processing Techniques using Python Programming” during 15<sup>th</sup> June to 20<sup>th</sup> June 2020 in association with IETE Students Forum (ISF) and Computer Society of India (CSI). This Online FDP was open to all the faculties and researchers working in various colleges and universities of India.

**About the FDP:**

- To understand the image & video processing by using Python Programming.
- To help the faculties, academicians and researchers to apply the Python imaging library (pillow) To develop various projects like Face Recognition, color Identification Robot and So on

The purpose of this FDP is to help to understand and build their Image & Video Processing Projects using OpenCV. OpenCV and Tesseract are also implement on Raspberry Pi for image processing project.

**Conduction of FDP:**

The FDP was conducted through the **Digital Platform** and enabled the participants to get connected with experts and speakers.

The Speaker for the FDP is **Mr. Ganesh Attarde, Founder, GB Softronics Solutions, Nashik**. Around **61 Participants** as faculties and researchers from various colleges and universities of India have registered to participate in this Online FDP. After the conduction of Online Faculty Development Program, E-Certificates has been sent to the registered email Ids.



**Welcome Address by Dr. B. Rajalakshmi HOD-CSE and Dr Sanjeev Sharma HOD-ECE**



**ONLINE FDP ORGANIZERS AND COORDINATORS**



**ONLINE INTERACTION WITH SPEAKER AND PARTICIPANTS**

## **Outcome of FDP:**

The FDP session has fulfilled the expectations of the participants. Effectiveness of the subject content delivered by the Speaker is good and he has covered the applications of image and video processing using Open CV. Rating on the Interactive sessions and Online Lecture sessions as expressed by the participants is Excellent. The Subject matter was presented effectively with Software Tools Usage and Programming. Finally overall Rating of the FDP has given a positive feedback about the conduction of FDP.

**Speaker Mr Ganesh attarde** Founder GB Softronics solution has delivered the online lecture sessions.

\* Subject Coverage is well structured in this FDP on Image and Video processing applications like face recognition, OpenCV software Platform , Coding in Python.

\* Day 3 was interactive session on first two days lecture

\* Day 5 live Feedback Session from Participants Expressed good views on Topic chosen was opt and good deliverance

\* Posted in YouTube all the sessions

FDP WhatsApp group - Doubt clarifications, Assignments , Shared Study Material with Codings were given.

### **About the Software Tools :**

OPENCV is software and also library in pyhon , by using this we can do image & video processing.

Text Detection from image:

Python tesseract (py-tesseract) is library with Python in order to detect text in images through optical character recognition (OCR) .

OPENCV IS MUCH FASTER THAN MATLAB □

That's why OpenCV preferred over MATLAB.

The purpose of this course is to help you build your own Image & Video Processing projects using OpenCV .

OpenCV & Tesseract are also implement on raspberry Pi for image processing project.

## **Hands-on session Conveyed by the speaker**

1. What is Computer Vision? , Introduction to Image Processing by OpenCV .
  3. Reading, Writing and Displaying Images
  4. Changing Color Spaces
  5. Resizing Images /cropping image
  6. Image Rotation
  7. Image Translation
  8. Simple Image Thresholding
  9. Adaptive Thresholding
  10. Image Segmentation (Watershed Algorithm)
  11. Bitwise Operations
  12. Edge Detection
  13. Image Filtering
  14. Image Contours
  15. Scale Invariant Feature Transform (SIFT)
  16. Speeded-Up Robust Features (SURF)
  17. Feature Matching
  18. Face Detection
  19. Learn how to manipulate pixels .
  20. Understand how to represent colors image with hue, saturation, and brightness .
  21. Retrieve similar images using the histogram comparison .
  22. Learn to segment images into homogenous regions and extract meaningful objects.
  23. Scan an image with pointers and neighbor access.
  24. Compare colors using the strategy design pattern .
  25. How to inspect and understand APIs and third party libraries to be used with Python.
  26. How to apply the Python imaging library (pillow) to open.
  27. How to detect text from Image & Video using tesseract OCR.
- What projects you do after completing this workshop:
1. Face Recognition using Open CV
  2. Emotion Recognition using OpenCV
  3. Object Recognition using Open CV
  4. Face Tracking using OpenCV
  5. Drowsy Driver detection using OpenCv
  6. Traffic Management using OpenCV
  7. License Plate Recognition using OpenCV
  8. Lane Detection using Open CV
  9. Colour Identification Robot using OpenCV
  10. Haar Cascade Object Detection Face & Eye – OpenCV with Python
  11. Digit Recognition using Open CV
  12. Human body skeleton detection and tracking using OpenCV.
- And many more projects can be done with OpenCV.

**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ECE & CSE**

**FIVE DAYS FDP ON IMAGE & VIDEO PROCESSING TECHNIQUES USING PYTHON PROGRAMMING**

Timestamp	Name	College	How did the FDP session compare to your expectations?	Effectiveness of the subject content delivered by the Speaker	Rating on the Interactive sessions and Online Lecture sessions	The Subject matter was presented effectively with Software Tools Usage and Programming	Overall Rating of the FDP conducted by the Department / Institution
6/19/2020 10:10:23	HASEEBA YASEEN	GLOBAL ACADEMY OF TECHNOLOGY	Good	Excellent	Excellent	Excellent	Good
6/19/2020 10:10:46	ARVIND.R	Gopalan College of engineering and management	Good	Good	Good	Good	Good
6/19/2020 10:11:14	Dr.Puneeth Kumar B S	INDIAN ACADEMY DEGREE COLLEGE-AUTONO	Good	Good	Good	Excellent	Good
6/19/2020 10:11:27	Chandrsshakar	CBIT kolar	Excellent	Good	Good	Good	Good
6/19/2020 10:12:12	CHETHAN K	VIDYAVARDHAKA COLLEGE OF ENGINEERING.	Good	Good	Good	Good	Good
6/19/2020 10:13:29	Chethan Kumar N S	CBIT	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 10:14:27	Madhura Prakash M	BNM INSTITUTE OF TECHNOLOGY	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 10:15:47	Rakeebha	HKBK college of engineering	Good	Good	Good	Excellent	Excellent
6/19/2020 10:16:49	SUDHEESH K V	Vidyavardhaka College of Engineering, Mysuru	Good	Good	Excellent	Good	Excellent
6/19/2020 10:24:51	Mahadeva Swamy	VidyaVardhaka College of Engineering	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 10:25:39	Shilpa	GOPALAN COLLEGE OF ENGINEERING and MA	Fair	Good	Good	Fair	Fair
6/19/2020 10:37:21	Suparna K	Gopalan College of Engineering and Management	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 10:38:25	Smruthi Nair	Gopalan College of Engineering & Management	Good	Good	Good	Good	Good
6/19/2020 10:40:24	APARNA N	GOPALAN COLLEGE OF ENGINEERING AND MA	Fair	Good	Fair	Good	Good
6/19/2020 10:48:54	ROOPA B S	DBIT, BENGALURU	Good	Good	Fair	Good	Good
6/19/2020 10:53:00	Rashmi KT	DBIT	Good	Fair	Good	Good	Fair
6/19/2020 10:59:56	Mrs.LAVANYA RAVI	BAPATLA WOMEN'S ENGINEERING COLLEGE,B	Excellent	Good	Good	Good	Good
6/19/2020 11:16:24	Sanjiv Kumar Jain	Medi-Caps University Indore	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 11:41:55	Ms. TURAKA SOWMYA	BAPATLA WOMEN'S ENGINEERING COLLEGE	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 12:13:25	Sapna P J	Dayananda Sagar of College of Engg	Good	Excellent	Good	Excellent	Good
6/19/2020 12:44:20	ROHITH K	VIDYAVARDHAKA COLLEGE OF ENGINEERING.	Good	Excellent	Good	Excellent	Excellent
6/19/2020 12:44:58	POORNIMA K V S	C.B.I.T	Good	Good	Good	Good	Good
6/19/2020 12:44:59	MADHAN KUMAR G S	MAHARAJA INSTITUTE OF TECHNOLOGY THAN	Good	Good	Excellent	Good	Good
6/19/2020 12:45:20	SUMALATHA EMMELA	BAPATLA WOMEN'S ENGINEERING COLLEGE	Good	Good	Good	Good	Good
6/19/2020 12:48:36	Dr. Pushpalatha K N	Dayananda Sagar College of Engineering	Excellent	Excellent	Excellent	Excellent	Good
6/19/2020 12:52:00	Yashaswini B M	Don Bosco Institute of Technology	Good	Good	Good	Good	Good
6/19/2020 12:52:33	ROHINI B R	DON BOSCO INSTITUTE OF TECHNOLOGY	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 12:54:44	Vinaka Deepak Halbhavi	Don Bosco institute of technology ,Bangalore	Good	Good	Good	Good	Good



**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ECE & CSE**

**FIVE DAYS FDP ON IMAGE & VIDEO PROCESSING TECHNIQUES USING PYTHON PROGRAMMING**

Timestamp	Name	College	How did the FDP session compare to your expectations?	Effectiveness of the subject content delivered by the Speaker	Rating on the Interactive sessions and Online Lecture sessions	The Subject matter was presented effectively with Software Tools Usage and Programming	Overall Rating of the FDP conducted by the Department / Institution
6/19/2020 12:58:32	A.M.Bojamma	St.Joseph's College, Autonomous	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 12:58:45	KIRAN KUMAR HUMSE	Vidyavardhaka College of Engineering	Good	Good	Good	Good	Good
6/19/2020 13:05:01	RAJESH BABU MOVVA	BAPATLA ENGINEERING COLLEGE, BAPATLA	Fair	Fair	Fair	Fair	Fair
6/19/2020 13:12:18	Dr. Sandeep R	Vidyavardhaka College of Engineering	Fair	Fair	Fair	Fair	Fair
6/19/2020 13:12:35	Sowmya K S	Don Bosco Institute of Technology	Fair	Good	Fair	Good	Good
6/19/2020 13:12:46	Samta Dilip Talatule	Jhulelal Institute of Technology	Excellent	Excellent	Good	Good	Excellent
6/19/2020 13:19:12	Suneetha Emmela	Bapatla Women's Engineering College	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 13:32:12	Veena G	Vemana institute of technology	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 13:40:02	D.KAVITHA	Mvje	Good	Good	Good	Good	Excellent
6/19/2020 13:50:07	Geethashree A	Vidyavardaka college of engineering	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 13:50:51	Prasanna Kumar M	Dr. Ambedkar Institute of Technology	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 13:53:06	shruthirenuka99@gmail.co	NDRK institute of technology,Hassan	Good	Excellent	Good	Excellent	Excellent
6/19/2020 13:58:31	Dr.Abhimanyu Kumar Yad	Babu Banarasi Das National Institute Of Technology	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 14:01:56	Dr T N Prabakar	Sri Sairam College of Engineering	Excellent	Excellent	Good	Excellent	Excellent
6/19/2020 14:06:53	Asadi Venkata Mutyalamm	Bapatla Women's Engineering College	Good	Good	Good	Good	Good
6/19/2020 14:16:51	Nikhil	KLS VEDIT Haliyal	Excellent	Excellent	Good	Excellent	Excellent
6/19/2020 14:18:07	Alfred Vivek D'Souza	Vidyavardhaka College of Engineering	Good	Good	Good	Fair	Fair
6/19/2020 14:21:34	Ishani Mishra	New Horizon College of Engineering	Excellent	Excellent	Excellent	Excellent	Excellent
6/19/2020 14:25:47	Prof PRAMOD PATIL	HSIT NIDASOSHI	Excellent	Good	Excellent	Excellent	Excellent
6/19/2020 14:46:10	V UMAMAHESWAR RAO	VEMU INSTITUTE OF TECHNOLOGY	Excellent	Excellent	Excellent	Good	Good
6/19/2020 15:05:38	Sonalee Suryawanshi	LPU, Jalandhar	Good	Good	Excellent	Good	Good
6/19/2020 15:16:16	Mudit Chaudhary	RVIT	Good	Good	Good	Excellent	Excellent
6/19/2020 15:40:21	Sharathkumar.aj@vvce.ac	Vidyavardhaka College of Engineering, Mysuru	Good	Good	Good	Good	Good



**NEW HORIZON  
COLLEGE OF ENGINEERING**

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA  
New Horizon Knowledge Park, Ring Road, Bellandur Post, Bengaluru 560 103



*Certificate*  
**OF PARTICIPATION**



**FIVE DAYS ONLINE FACULTY DEVELOPMENT PROGRAM ON  
“IMAGE & VIDEO PROCESSING TECHNIQUES USING PYTHON PROGRAMMING”**

**15<sup>th</sup> JUNE to 19<sup>th</sup> JUNE 2020**

This is to Certify that Dr. / Mr. / Ms. \_\_\_\_\_  
of \_\_\_\_\_ has participated in the  
Five Days Online Faculty Development Program during 15<sup>th</sup> June to 19<sup>th</sup> June 2020 organized by **Department of  
Electronics and Communication Engineering & Department of Computer Science and Engineering** in association with  
**The Institution of Electronics and Telecommunication Engineers (IETE) and Computer Society of India – Region V.**

**Dr. SANJEEV SHARMA**  
HOD-ECE

**Dr. B. RAJALAKSHMI**  
HOD-CSE

**Dr. MANJUNATHA**  
PRINCIPAL

From

**Dr. Sanjeev Sharma**  
**HOD – ECE**  
New Horizon College of Engineering,  
Bangalore – 560103

To

The Principal  
New Horizon College of Engineering,  
Bangalore – 560103

Respected Sir,

**Sub: One week Online Faculty Development Program on “EXPERTATHON – 2020 Tech-Talk Series 7” from 13<sup>th</sup> July to 17<sup>th</sup> July 2020**

We have planned to conduct a five days Online Faculty Development Program on “EXPERTATHON – 2020 Tech-Talk Series 7” from 13<sup>th</sup> July to 17<sup>th</sup> July 2020 in association with IETE Students Form (ISF). This online FDP is open to all the faculties and researchers working in various colleges and universities across India.

**No Registration fee** for the participants. The FDP will be conducted through the **Digital Platform**, enabling the participants to get connected with experts and speakers.

**About the FDP:**

- To understand the basics of latest techniques available in industries with the faculty members, researchers and students.
- To help the faculties, academicians, and researchers to apply the learnt knowledge for building the applications like gesture detection, LoRa for smart cities.

The purpose of this FDP is to help to understand the integration of all recent & emerging trends in the industry. Kindly grant us the permission for the same.



**HOD - ECE**

# EXPERTATHON

(Electronics and Communications Unplugged)  
A series of Talk Shows by Industry Veterans

Hosted by

**Dr. Sanjeev Sharma**  
HoD - ECE, NHCE

**Ranjan Manish**  
Head - IIIC, Dept. of HRD, NHCE



Email: [hod\\_ece@newhorizonindia.edu](mailto:hod_ece@newhorizonindia.edu) / [head.iic@newhorizonindia.edu](mailto:head.iic@newhorizonindia.edu)

[www.newhorizonindia.edu](http://www.newhorizonindia.edu)

NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Faculty Development Program on “**EXPERTATHON – 2020 Tech-Talk Series 7**”

Date : 13/07/2020 to 17/07/2020

S. No.	Date & Day	Name of the Topic & Resource Person (FN) 10.00 am – 12.00 noon	Name of the Topic & Resource Person (AN) 2.00 pm – 4.00 pm
1	13.07.2020 Monday	<b><i>Semiconductor Products: Demand in the Market, Development in Industry and Need of the Consumer</i></b> <b>Mr. Prafulla Galphade</b> Cadence Design Systems (India) Pvt. Ltd.	<b><i>AI Based Acess (LAN) Network</i></b> <b>Mr. Abhishek Dixit</b> Senior Systems Engineer, Networks Junipher
2	14.07.2020 Tuesday	<b><i>Semiconductor Industry -2020</i></b> <b>Mr. Rajeev Kumar Gowtham</b> Principal Project Manager, ARM, Bengaluru	Interative Session - 1
3	15.07.2020 Wednesday	<b><i>Hackers in Cyberworld</i></b> <b>Ms. Saumya Agarwal</b> Software Engineer, Cisco, India	<b><i>5G Networks</i></b> <b>Mr. Uttpal Desai</b> Engineering Manager, Intel, India
4	16.07.2020 Thursday	<b><i>Introduction to Mmwave Sensing: Signal Processing System for Multitarget Object Detection FMCW Radar</i></b> <b>Mr. Naseemuddin Ansari</b> Sr Staff Engineer, Qualcomm, Bengaluru, India	Interative Session - 2
5	17.07.2020 Friday	<b><i>AI/ML Product Design based on Zynq Ultrascale +MPSOC</i></b> <b>Mr Asish Suresh Khachane</b> Sr. Engineer, Xilinx Systems Pvt. Ltd. India	Imerging & Recent Trends of 2020

**New Horizon College of Engineering, Bangalore**

**Department of Electronics and Communication Engineering**

**EXPERTATHON 2020 - Registration Details**

S.No	Name	Institution Name
1	ABDUL RIAS P	Al Ameen Engineering college
2	Ajeena A	Al Ameen Engineering College
3	Dr Piruthiviraj P	New Horizon College of Engineering
4	SHIBILA T M	Al Ameen Engineering college
5	Abeena A	NSS College of Engineering
6	THANZEELA MOL A	Al Ameen Engineering College, Shornur
7	A.NAGARAJ	Sethu Institute of Technology
8	R. Rajalakshmi	Pandian Saraswathi yadav Engineering College
9	Priyanka Vasan	Vickram College of Engineering
10	NUFAIL.K	Al Ameen engineering college
11	N. Mahalakshmi	Vickram college of engineering
12	Karuppaiah A	DXC Teachnology
13	YASMIN ALAGANANDAM	Adhiyamaan College of Engineering
14	Yashwanth. K	Vickram college of engineering
15	Nayana G H	Dayananda Sagar College of Engineering
16	RAMA PRIYANGA S G	Dhanalakshmi Srinivasan College of Engineering, Coimbatore.
17	M Maheswari	New Horizon College of Engineering
18	T.Afrid	New horizon college of engineering
19	B SAROJA	Vemu Institute of Technology
20	S RAMALAKSHMI MALLADI	Raghu Institute of Technology
21	G RAJESH	New Horizon College of Engineering
22	Dr.M.Dhivya	New Horizon College of Engineering
23	Karthik C V	NHCE
24	Nisha Rani S N	Fatima Michael College of Engineering & Technology
25	N.Jeyakkannan	
26	Tessy Tomy	New Horizon College of Engineering
27	Monika Gupta	New Horizon College of Engineering, Bangalore
28	PUVIRAJAN T	NHCE
29	Dr SURESH N S	BMSCE BANGALORE
30	Bindu A U	Sri Siddhartha Institute of Technology
31	Arvind R Menon	Queen Mary University of London
32	Dr. Ashish B Jirapure	Priyadarshini College of Engineering
33	J LUKE CARISHMA	Dhanalakshmi Srinivasan College of Engineering
34	PAVITHRA S	Dhanalakshmi Srinivasan College of Engineering, Coimbatore.
35	Dr.R.Thirukkumaran	New Horizon College of Engineering

36	Bhaskar S V	New Horizon College of Engineering
37	Chandrashekar	C Byregowda Institute of Technology Kolar
38	Srinidhi H	Mysore college of Engineering and Technology
39	Chetan Krishnappa	University College Cork
40	PRAVEEN N	Cambridge Institute of Technology
41	Malashree N	C Byregowda Institute of Technology
42	ASMABI V	Al-Amern Engineering College
43	ASMABI V	Al-Amern Engineering College
44	Nagesha.A.S	C byrea gowda institute of technology kolar
45	Uppala Nageswar Rao	Sai spurthi institute of technology
46	P ASHOK	Prince Shri Venkateshwara Padmavathy Engineering College
47	Mrs.A.Meharajbegum	Mailam Engineering College, Mailam
48	NARMADHA.T	sri sairam engineering college
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56	Akash kumar Gupta	Raghu Institute of Technology
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58	GOUSIYA BEGUM SK	Malineni Perumallu Educational Society's Group of Institutions
59	MOUNA K M	BGSIT ADICHUNCHANAGIRI UNIVERSITY
60	Shylesh B C	MIT Kundapura
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76	Anju Aravind. K	Mother Teresa Institute of Science and Technology







# NEW HORIZON COLLEGE OF ENGINEERING

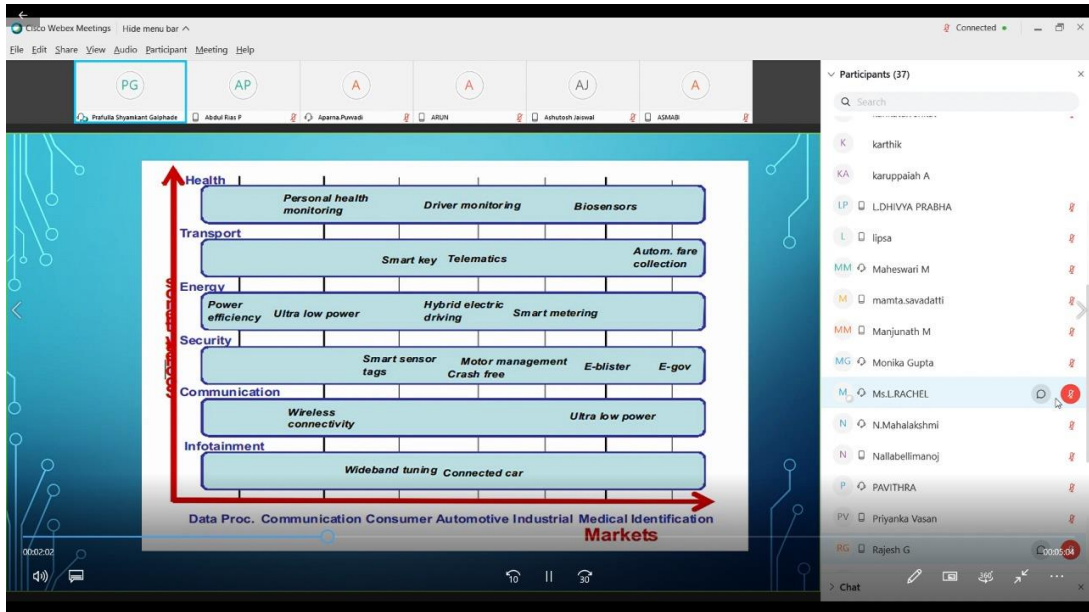
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC  
Accredited by NAAC with 'A' Grade, Accredited by NBA

## Departments of Electronics and Communication & Information Science and Engineering

### Report on “Five Days online Faculty Development Program on Expertathon- A Series of Talk shows by Industry Veterans”

The Department of Electronics and Communication Engineering and Industry Institute Interactive cell in collaboration with ASSOCHAM & IETE conducted a FIVE days FDP (Faculty Development Programme) on “*Expertathon- A Series of Talk shows by Industry Veterans*” from 13<sup>th</sup> July to 17<sup>th</sup> July, 2020 at New Horizon College of Engineering.

S. No.	Date & Day	Name of the Topic & Resource Person (FN) 10.00 am – 12.00 noon	Name of the Topic & Resource Person (AN) 2.00 pm – 4.00 pm
1	13.07.2020 Monday	<b><i>Semiconductor Products: Demand in the Market, Development in Industry and Need of the Consumer</i></b> <b>Mr. Prafulla Galphade</b> Cadence Design Systems (India) Pvt. Ltd.	<b><i>AI Based Acess (LAN) Network</i></b> <b>Mr. Abhishek Dixit</b> Senior Systems Engineer, Junipher Networks
2	14.07.2020 Tuesday	<b><i>Semiconductor Industry -2020</i></b> <b>Mr. Rajeev Kumar Gowtham</b> Principal Project Manager, ARM, Bengaluru	Interactive Session - 1
3	15.07.2020 Wednesday	<b><i>Hackers in Cyberworld</i></b> <b>Ms. Saumya Agarwal</b> Software Engineer, Cisco, India	<b><i>5G Networks</i></b> <b>Mr. Uttpal Desai</b> Engineering Manager, Intel, India
4	16.07.2020 Thursday	<b><i>Introduction to Mmwave Sensing: Signal Processing System for Multitarget Object Detection FMCW Radar</i></b> <b>Mr Naseemuddin Ansari</b> Sr Staff Engineer, Qualcomm, Bengaluru, India	Interactive Session - 2
5	17.07.2020 Friday	<b><i>AI/ML Product Design based on Zynq Ultrascale +MPSOC</i></b> <b>Mr Asish Suresh Khachane</b> Sr. Engineer, Xilinx Systems Pvt. Ltd. India	Emerging & Recent Trends of 2020



*Session 1 : Semiconductor Products: Demand in the Market, Development in Industry and Need of the Consumer*

**Session 1:**

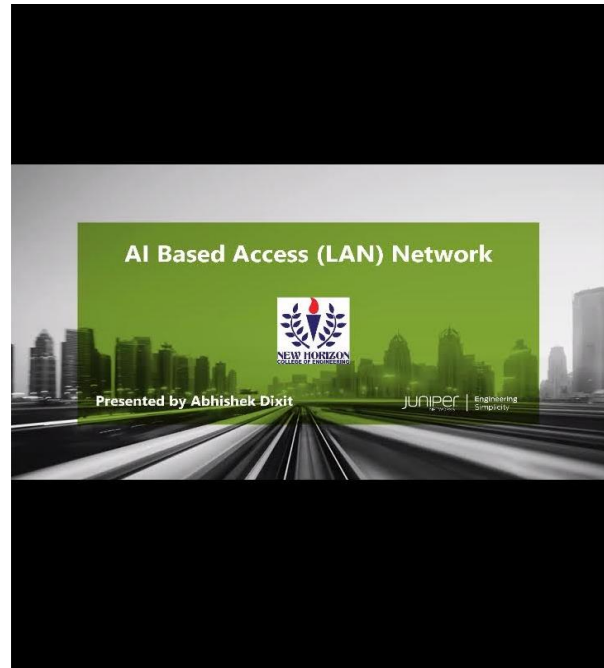
The speaker of the Tech-talk series 1 is **Mr. Prafulla Galphade, Senior Principal Program Manager at Cadence Design Systems (India) Pvt. Ltd.** He delivered his talk on semiconductor products, demand for semiconductor products in the markets and development carried out in Industries. Consumers need in semiconductor industries were also highlighted.

**Session 2:**

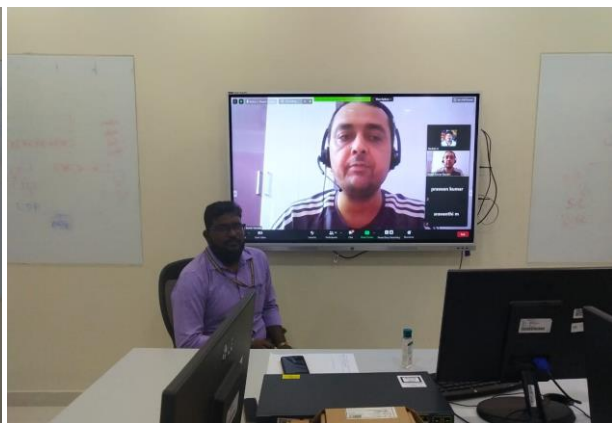
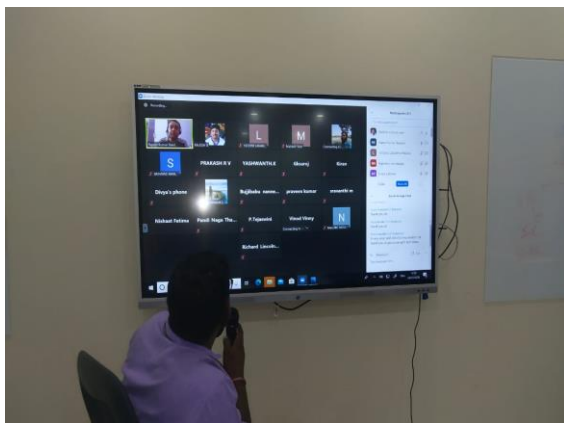
The speaker of the Tech-talk series 2 is **Mr. Abhisekh Dixit, Senior Systems Engineer, Juniper Networks.** He delivered his talk on AI Based Access LAN Networks. The session gave an insight on modern, intent-based networking architecture with the concept of artificial intelligence

**Session 3:**

The Speaker for the TECH Talk Series is **Mr. Rajeev Kumar Gowtham, Principal Project Manager, ARM, Bengaluru.** The session enlightened the insights of the rapid growth of changes in Semiconductor Industry leading to the staggering of price-performance improvement. The semiconductor industry is widely recognized as a key driver and technology enabler for the whole electronics value chain.



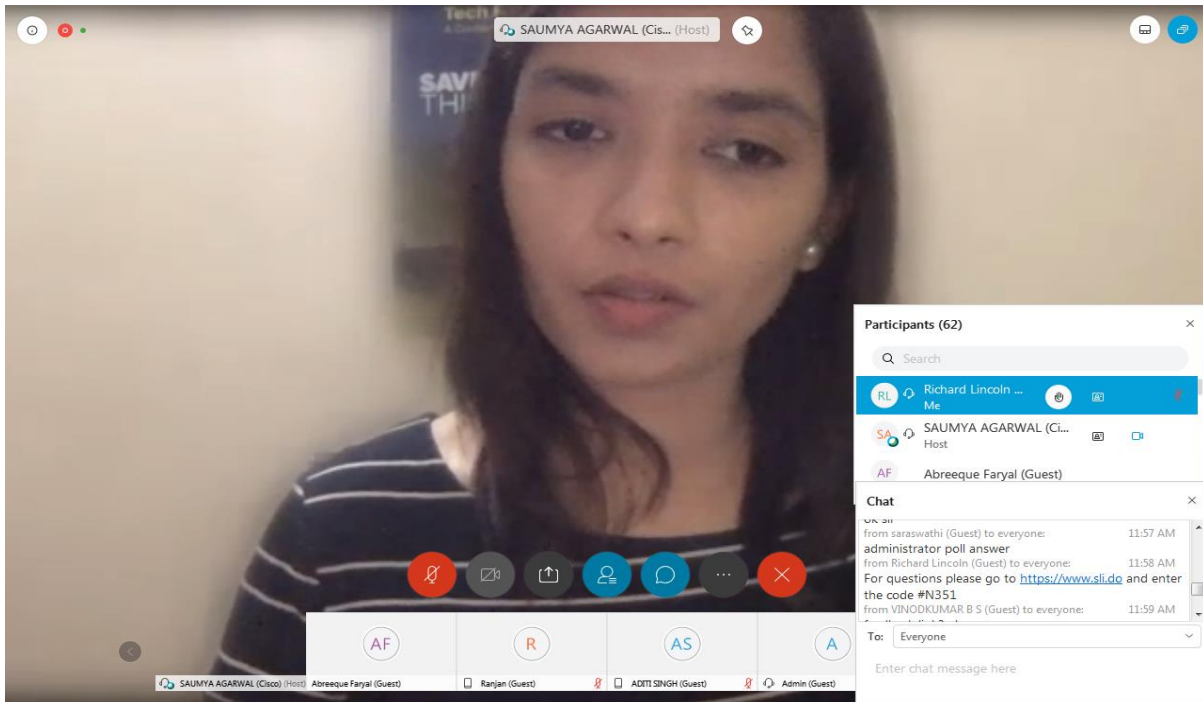
*Session 2: AI Based Access (LAN) Network*



*Session3: Semiconductor Industry -2020*

**Session 4:**

The speaker of the Tech-talk series 4 is **Ms. Saumya Agarwal, Software Engineer, Identity Services Engine, Cisco Pvt. Ltd. Bengaluru, Karnataka, India**. She delivered her talk on introduction to hacking, Cyber security development carried out in Industries. Consumer’s need for privacy was also highlighted.



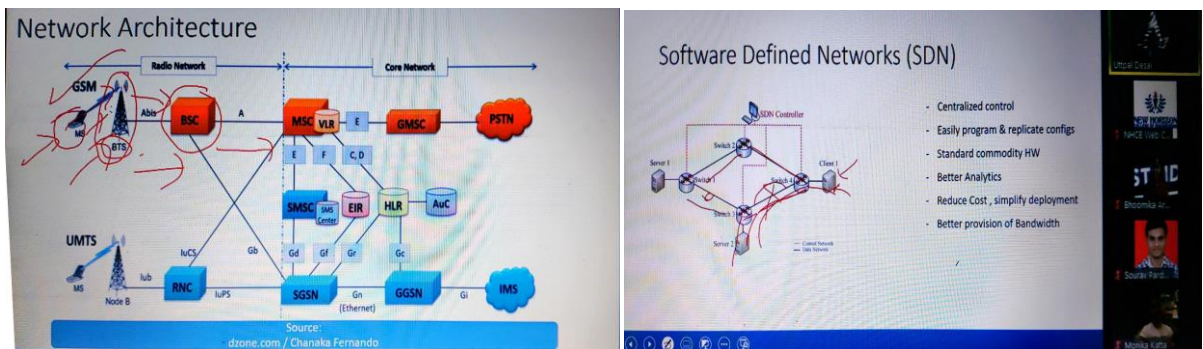
*Session 4: Hackers in Cyberworld*

**Session 5:**

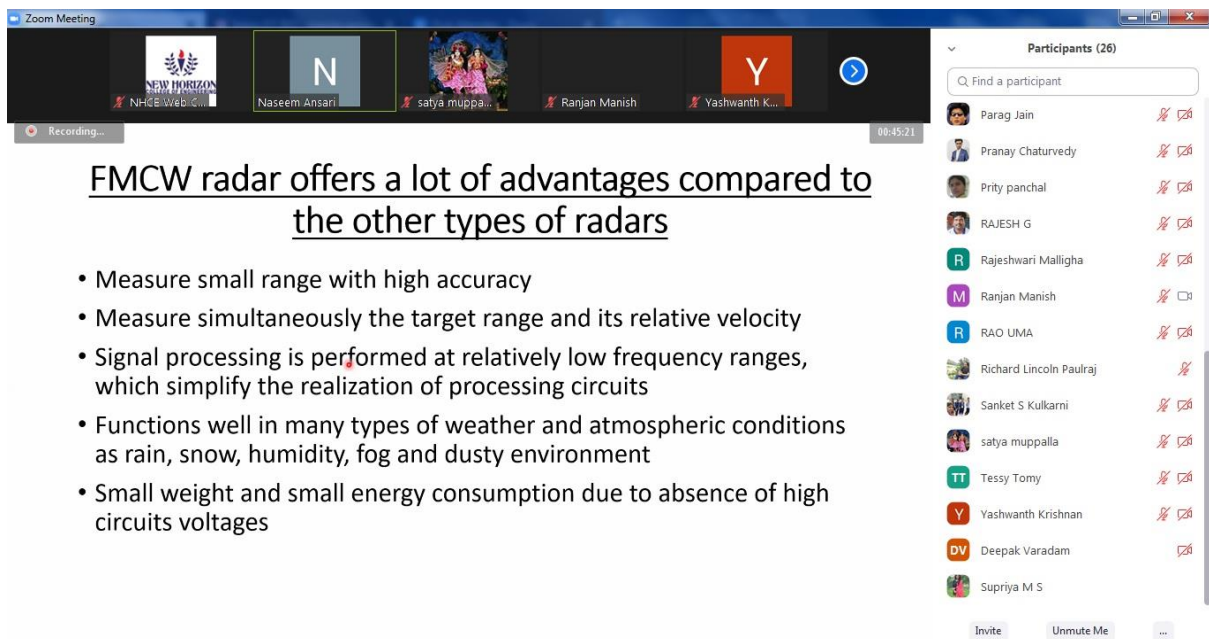
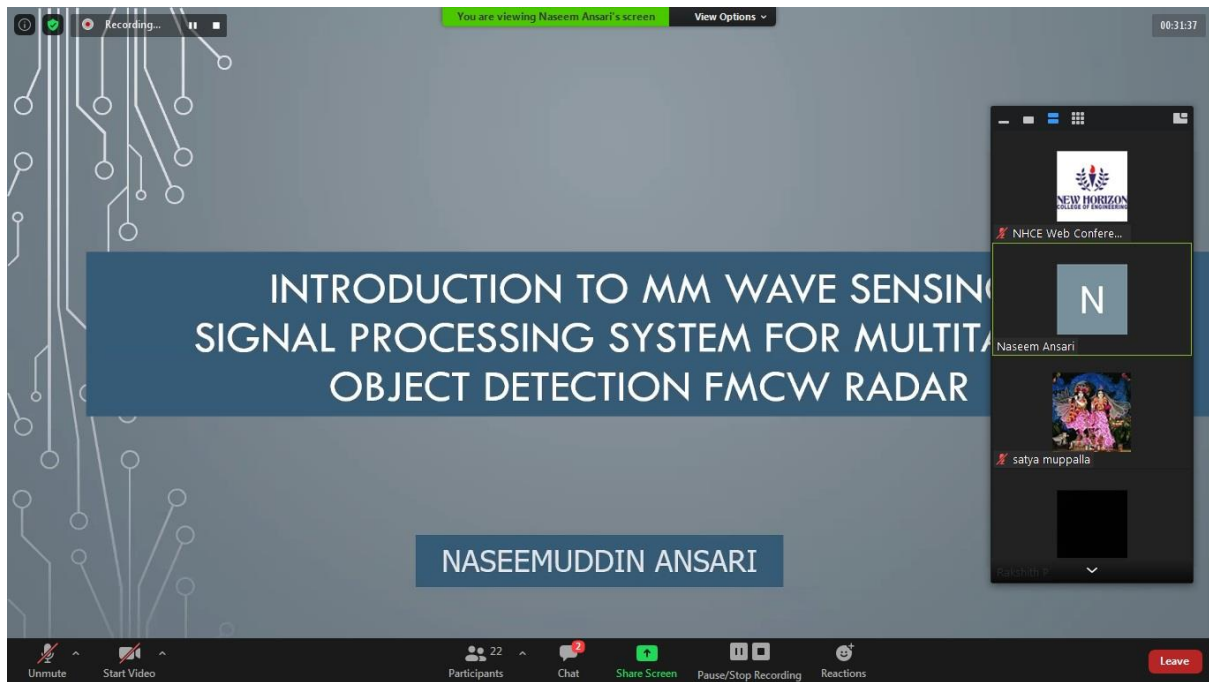
The speaker of the Tech-talk series 5 is Mr. Utpal Desai, Engineering Manager at Intel, India. He delivered his talk on Introduction to 5G , Evolution of Mobile Communication Generations, Network Architecture, Terminologies associated with 5G, Network Function Virtualization, Software Defined Radio, C-RAN Implementation, Network Slicing, Mobile Edge Computing, 5G Performance.

**Session 6:**

The speaker of the Tech-talk series 6 is **Mr Naseemuddin Ansari**, Sr Staff Engineer, Qualcomm, Bengaluru, Karnataka, India. He delivered his talk on Introduction to Mmwave Sensing: Signal Processing System for Multitarget Object Detection FMCW Radar.



*Session 5: 5G Networks*



## FMCW radar offers a lot of advantages compared to the other types of radars

- Measure small range with high accuracy
- Measure simultaneously the target range and its relative velocity
- Signal processing is performed at relatively low frequency ranges, which simplify the realization of processing circuits
- Functions well in many types of weather and atmospheric conditions as rain, snow, humidity, fog and dusty environment
- Small weight and small energy consumption due to absence of high circuits voltages

### *Session 6: Introduction to Mmwave Sensing: Signal Processing System for Multitarget Object Detection FMCW Radar*

### Session 7:

The speaker of the Tech-talk series 7 is delivered by Mr Asish Suresh Khachane, Sr. Engineer, Filed Application –Xilinx Excelpoint Systems Pvt. Ltd. Bengaluru, Karnataka, India. He has delivered on multiple sessions on introduction to artificial intelligence and Machine learning. His talk on Zynq Ultrascale +MPSOC is a add-on valuable industry based information delivered to the participants.

Zoom Meeting

Participants (33)

Dr. Piruthiviraj P... (Host, me) | Ravali B | Ashish Khachane | sonali goyal | Gayatri Thawre

Turn off Original Sound | Recording...

## SoC - Zynq®-7000

**Single-Core**  
766MHz  
Artix-7 FPGA Fabric

**Dual-Core**  
800MHz  
Artix-7 FPGA Fabric

**Dual Core**  
1GHz  
Kintex-7 FPGA Fabric

**Integrated Memory Mapped Peripherals**  
• e.g. USB2.0, GxG

**Integrated Analog**  
• Dual multi-channel 12-bit ADC  
• Up to 1Mbps  
• Temp & Voltage sensors

**High Bandwidth Memory**  
• L1/L2 CPU Caches  
• Dedicated On-Chip Memory (OCM)  
• DDR3, DDR2, LPDDR2 w/ ECC

**Tightly Coupled Domains**  
• 3000+ PS/PL interconnects  
• Low Latency  
• Up to 100Gb/s of bandwidth

**Extensive IP Portfolio**  
• Standardized AXI4 interfaces  
• Enables peripheral expansion  
• Includes software drivers

Page 6

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Participants (33): Dr. Piruthiviraj P... (Host, me), Ashish Khachane, Abhav, Anita H, Gayatri Thawre, K RAJA SEKAR, Karthik Reddy, Lavanya Raju, Likhith Kumar CG, Lipsa Dash, Madan Gopal Mekala, Mamta Savadatti, Monisha V

Zoom Meeting 40-Minutes

You are viewing Ashish Khachane's screen

Participants (40)

Dr. Piruthiviraj P... | HSI BHATIA | Ashish Khachane | Prof. Duwuri... | RAO UMA

Turn on Original Sound | Recording...

## Introduction to Machine Learning

2019 embedded VISION SUMMIT

Zoom Group Chat

From Kaveri Hatti to Everyone: not audible

From Kartheek Kothuri to Everyone: feedback link please

From Kaveri Hatti to Everyone: Webber is started but not audible

From Me to Everyone: at the Q&A session it will be sent shortly

To: Everyone | File

Type message here...

**Session7: AI/ML Product Design based on Zynq Ultrascale +MPSOC**





45	NALLABELLI MANOJ	JNTUHCEJ JAGTIAL	Excellent	Very Good	Excellent	Very Good	Excellent	Excellent
46	VIGNESH.T	Velalar College of Engineering and Technology	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
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58	A.NAGARAJ	Sethu Institute of Technology	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
59	R. Rajalakshmi	Pandian Saraswathi yadav Engineering College	Excellent	Very Good	Good	Very Good	Very Good	Very Good
60	Priyanka Vasan	Vickram College of Engineering	Very Good	Good	Very Good	Very Good	Very Good	Very Good
61	NUFAIL.K	Al Ameen engineering college	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
62	N. Mahalakshmi	Vickram college of engineering	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
63	Karuppaiah A	DXC Teachnology	Excellent	Very Good	Very Good	Very Good	Very Good	Very Good
64	YASMIN ALAGANANDAM	Adhiyamaan College of Engineering	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
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**New Horizon College of Engineering, Bangalore**  
**Department of Electronics and Communication Engineering**  
**EXPERTATHON 2020 - Consolidated Feedback**

Sl.No	Participant Name	Institution / Organization:	How helpful was the Tech-talk for you?	Rate the Following [Instructor Knowledge on topic]	Rate the Following [Meeting Platform]	Rate the Following [Contents of Presentation]	Rate the Following [Quality of Audio & Video]
1	Tessy Tomy	New Horizon College of Engineering	Very Good	Very Good	Good	Very Good	Good
2	Monika Gupta	New Horizon College of Engineering, Bangalore	Excellent	Very Good	Very Good	Very Good	Very Good
3	PUVIRAJAN T	NHCE	Excellent	Excellent	Excellent	Excellent	Excellent
4	Dr SURESH N S	BMSCE BANGALORE	Good	Good	Good	Good	Good
5	Bindu A U	Sri Siddhartha Institute of Technology	Very Good	Very Good	Good	Very Good	Very Good
6	Arvind R Menon	Queen Mary University of London	Excellent	Excellent	Excellent	Excellent	Excellent
7	Dr. Ashish B Jirapure	Priyadarshini College of Engineering	Excellent	Excellent	Excellent	Excellent	Excellent
8	J LUKE CARISHMA	Dhanalakshmi Srinivasan College of Engineering	Excellent	Excellent	Excellent	Excellent	Excellent
9	PAVITHRA S	Dhanalakshmi Srinivasan College of Engineering, Coimbatore.	Very Good	Good	Good	Good	Good
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11	Bhaskar S V	New Horizon College of Engineering	Excellent	Excellent	Excellent	Excellent	Excellent
12	Chandrashekar	C Byregowda Institute of Technology Kolar	Very Good	Excellent	Excellent	Excellent	Excellent
13	Srinidhi H	Mysore college of Engineering and Technology	Excellent	Very Good	Excellent	Very Good	Excellent
14	Chetan Krishnappa	University College Cork	Excellent	Excellent	Excellent	Excellent	Excellent
15	PRAVEEN N	Cambridge Institute of Technology	Excellent	Excellent	Excellent	Excellent	Excellent
16	Malashree N	C Byregowda Institute of Technology	Excellent	Excellent	Excellent	Excellent	Excellent
17	ASMABI V	Al-Amern Engineering College	Very Good	Very Good	Very Good	Very Good	Good
18	ASMABI V	Al-Amern Engineering College	Very Good	Very Good	Very Good	Very Good	Very Good
19	Nagesha.A.S	C byrea gowda institute of technology kolar	Excellent	Good	Good	Good	Good
20	Uppala Nageswar Rao	Sai spurthi institute of technology	Excellent	Excellent	Excellent	Excellent	Very Good
21	P ASHOK	Prince Shri Venkateshwara Padmavathy Engineering College	Excellent	Excellent	Good	Excellent	Excellent
22	Mrs.A.Meharajbegum	Mailam Engineering College, Mailam	Very Good	Good	Good	Good	Good
23	NARMADHA.T	sri sairam engineering college	Excellent	Excellent	Excellent	Excellent	Excellent
24	Sadiya Sultana	HKBK College of Engineering	Excellent	Excellent	Excellent	Excellent	Excellent
25	Bhargavi N G	Bangalore Technological Institute	Excellent	Very Good	Good	Good	Good
26	ROOPA KOTHAPALLI	Raghu institute of technology	Excellent	Very Good	Excellent	Excellent	Excellent
27	ARUN RAJ S R	University B.D.T College of Engineering / V.T.U	Excellent	Excellent	Excellent	Excellent	Excellent
28	NANDA B S	PES college of engineering MANDYA	Excellent	Very Good	Excellent	Very Good	Excellent
29	B SAROJA	VEMU INSTITUTE OF TECHNOLOGY	Very Good	Very Good	Very Good	Very Good	Very Good
30	S RAMALAKSHMI MALLADI	RAGHU INSTITUTE OF TECHNOLOGY	Excellent	Excellent	Excellent	Excellent	Excellent
31	Akash kumar Gupta	Raghu Institute of Technology	Very Good	Very Good	Very Good	Very Good	Very Good
32	THALLA HEMALATHA	Anurag group of institutions	Very Good	Excellent	Excellent	Very Good	Good
33	GOUSIYA BEGUM SK	Malineni Perumallu Educational Society's Group of Institutions	Excellent	Very Good	Good	Very Good	Good
34	MOUNA K M	BGSIT ADICHUNCHANAGIRI UNIVERSITY	Very Good	Good	Good	Very Good	Good
35	Shylesh B C	MIT Kundapura	Excellent	Excellent	Excellent	Excellent	Excellent
36	Mr. MOHAMMED SAMEER	Malla Reddy Engineering College and Management Sciences	Excellent	Excellent	Excellent	Excellent	Excellent
37	JAYADEVAN N M	Karpagam College of Engineering	Excellent	Average	Average	Average	Average
38	Mr. S. ALAGURAJA	Thigarajar College, Madurai	Excellent	Very Good	Very Good	Very Good	Very Good
39	NALLABELLI MANOJ	JNTUHCEJ JAGTIAL	Excellent	Excellent	Excellent	Very Good	Very Good
40	VIGNESH.T	Velalar College of Engineering and Technology	Excellent	Excellent	Excellent	Excellent	Excellent
41	Usha K	CIT	Excellent	Very Good	Very Good	Very Good	Very Good
42	Madana Gopal Mekala	JNTUH, Hyderabad	Very Good	Average	Good	Very Good	Good
43	M SRAVANTHI	Nova College Of Engineering And Technology,Hyderabad	Excellent	Excellent	Excellent	Excellent	Excellent
44	Varuna Kumara	Moodlakatte Institute of Technology Kundapura	Very Good	Very Good	Very Good	Very Good	Very Good



45	RAYALA RAVI KUMAR	Mahaveer Institute of Science and Technology	Excellent	Very Good	Excellent	Very Good	Excellent
46	M SRAVANTHI	Nova College Of Engineering And Technology,Hyderabad	Excellent	Excellent	Excellent	Excellent	Excellent
47	Lakshya Nahar	Ramaiah Institute of Technology	Excellent	Excellent	Excellent	Excellent	Excellent
48	DEVARAJ R	Muthavammal Engineering College	Excellent	Excellent	Very Good	Excellent	Very Good
49	Ramineni Rakesh	Usha Rama College of Engineering and technology	Very Good	Very Good	Good	Good	Good
50	G.MADUMATHI	Hindusthan College of Arts and Science	Excellent	Excellent	Excellent	Very Good	Very Good
51	Anju Aravind. K	Mother Teresa Institute of Science and Technology	Excellent	Excellent	Excellent	Excellent	Excellent
52	ABDUL RIAS P	Al Ameen Engineering college	Excellent	Excellent	Excellent	Excellent	Excellent
53	Ajeena A	Al Ameen Engineering College	Excellent	Good	Good	Good	Good
54	Dr Piruthiviraj P	New Horizon College of Engineering	Excellent	Excellent	Very Good	Excellent	Excellent
55	SHIBILA T M	Al Ameen Engineering college	Excellent	Very Good	Very Good	Very Good	Very Good
56	Abeena A	NSS College of Engineering	Very Good	Excellent	Very Good	Very Good	Very Good
57	THANZEELA MOL A	Al Ameen Engineering College, Shomur	Excellent	Very Good	Good	Very Good	Very Good
58	A.NAGARAJ	Sethu Institute of Technology	Excellent	Excellent	Excellent	Excellent	Excellent
59	R. Rajalakshmi	Pandian Saraswathi yadav Engineering College	Excellent	Very Good	Good	Very Good	Very Good
60	Priyanka Vasan	Vickram College of Engineering	Very Good	Good	Very Good	Very Good	Very Good
61	NUFAIL.K	Al Ameen engineering college	Excellent	Excellent	Excellent	Excellent	Excellent
62	N. Mahalakshmi	Vickram college of engineering	Excellent	Excellent	Excellent	Excellent	Excellent
63	Karuppaiah A	DXC Teachnology	Excellent	Very Good	Very Good	Very Good	Very Good
64	YASMIN ALAGANANDAM	Adhiyamaan College of Engineering	Excellent	Excellent	Excellent	Excellent	Excellent
65	Yashwanth. K	Vickram college of engineering	Very Good	Very Good	Very Good	Very Good	Very Good
66	Nayana G H	Davananda Sagar College of Engineering	Excellent	Good	Good	Very Good	Very Good
67	RAMA PRIYANGA S G	Dhanalakshmi Srinivasan College of Engineering, Coimbatore.	Excellent	Excellent	Excellent	Excellent	Excellent
68	M Maheswari	New Horizon College of Engineering	Very Good	Very Good	Very Good	Very Good	Very Good
69	T.Afrid	New horizon college of engineering	Excellent	Excellent	Excellent	Excellent	Excellent
70	B SAROJA	Vemu Institute of Technology	Very Good	Excellent	Very Good	Very Good	Very Good
71	S RAMALAKSHMI MALLADI	Raghu Institute of Technology	Excellent	Excellent	Very Good	Excellent	Very Good
72	G RAJESH	New Horizon College of Engineering	Good	Good	Good	Good	Good
73	Dr.M.Dhivya	New Horizon College of Engineering	Excellent	Excellent	Excellent	Excellent	Excellent
74	Karthik C V	NHCE	Good	Good	Good	Good	Good
75	Nisha Rani S N	Fatima Michael College of Engineering & Technology	Very Good	Good	Good	Good	Good
76	N.Jeyakkannan	Raghu institute of technology	Excellent	Excellent	Excellent	Excellent	Excellent

Rate the Following [Quality of Presenter]	Overall Rating of the Webinar
Good	4
Very Good	5
Excellent	5
Good	4
Very Good	4
Excellent	5
Excellent	5
Excellent	5
Good	4
Excellent	5
Excellent	5
Excellent	5
Very Good	5
Excellent	5
Excellent	5
Very Good	4
Very Good	4
Good	4
Excellent	5
Excellent	5
Good	4
Excellent	5
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Very Good	5
Excellent	5
Excellent	5
Very Good	5
Very Good	4
Excellent	5
Very Good	4
Excellent	4
Very Good	4
Very Good	5
Excellent	5
Excellent	5
Average	5
Very Good	5
Very Good	5
Excellent	5
Very Good	5
Average	5
Excellent	5
Very Good	5

Excellent	4
Excellent	5
Excellent	5
Excellent	5
Very Good	4
Very Good	5
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Excellent	5
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Very Good	5
Excellent	5
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Very Good	5
Excellent	5
Excellent	5
Very Good	5
Excellent	5
Very Good	5
Very Good	5
Excellent	5
Very Good	4
Excellent	5
Very Good	4
Excellent	5
Good	4
Excellent	5
Good	4
Good	4
Excellent	5