

SRI VENKATESWARA COLLEGE OF ENGINEERING
(AUTONOMOUS-AFFILIATED TO ANNA UNIVERSITY)

DEPARTMENT OF INFORMATION TECHNOLOGY
&
ASSOCIATION OF INFORMATION TECHNOLOGISTS

Special Talk

on

“Opportunities offered by Emerging Technologies-AI and IoT”

22.10.2020

A REPORT

Submitted to the Principal

[Signature]
16/12/2020



Harish
17/12/20



UMA N IT <numa@svce.ac.in>

Fwd: Emerging Technologies and opportunities - AI, IOT , AIOT, Edge AI, Edge TPU, BlockChain

1 message

HOD IT <hodit@svce.ac.in>

Fri, Sep 11, 2020 at 1:57 PM

To: UMA N IT <numa@svce.ac.in>, RAJARAM V IT <vrajaram@svce.ac.in>

Dr.V.Vidhya
 Professor & Head
 Dept. of Information Technology
 Sri Venkateswara College of Engineering
 Sriperumbudur-602117
 Ph.044-27152000,extn:350

----- Forwarded message -----

From: **Quality Quest AI/ML/DL IOT Robotics Platforms** <ailab.trainingsystems@gmail.com>

Date: Wed, Sep 9, 2020 at 3:50 PM

Subject: Emerging Technologies and opportunities - AI, IOT , AIOT, Edge AI, Edge TPU, BlockChain

To: <hodit@svce.ac.in>

Madam

We are in the field of education for the past 20 years and would like to associate with you towards supply and establishment of lab with our integrated platforms on AI, IOT, Blockchain, Autonomous drive, Robotics and more.

We will be glad to give presentation on Mega Trends in the field of education and opportunities for real world applications with the emerging trending technologies.

The available platforms to use with open source will be addressed.

Our Platforms include Open Source Hardware and Software, Supplied with Curriculum/Course ware based Text Books.

Fundamentals, applications for Industry 4.0, Smart Factory, Smart City, Smart Home projects are included in our textbooks, which offer curriculum with opportunity for departmental and interdisciplinary / Cross departmental collaborative assignments.

1) Artificial Intelligence Platforms

a) AI on Autonomous Machines

AI, Machine Learning , Deep learning and autonomous drive with NVidia Jetson and using Open Source Platform

AI and IOT platforms

- IOT with external Cloud and AI sensing , control, voice recognition and control through GA))
- Creating own server for AI and IOT
- Artificial intelligence- Machine Learning using **Handheld Device**

2) AIOT Platforms -(AI enabled IoT) Integrated Platforms **Edge devices and Edge TPU**

- a) **AIoT Serbot** - AI and IoT Convergence Training based on **Indoor Service Robot Platform**
- b) **AIoT AutoCar** - AI and IoT convergence training based on **Autonomous vehicle** platform
- c) **AIoT Home** - AI and IoT Convergence Training on Smart Home
- d) **AIoT Server Plus** - AIoT Server using **high performance edge devices**

3) IOT platforms - IOT using various development boards, application domain

- Environmental and **BEACON** Service (*Wi-Fi, Zigbee, and Bluetooth*)
- **IoT on Mesh Network Platform** (Sensor to Sensor) uses IFTTT Service
Applications in real world includes Smart Home, Industrial Automation, Healthcare etc.
- **IoT using BEACON** – BLE based sensor module service/Beacon service
- **IoT using Cortex M4** - educational training system based on the ARM Cortex M4-based modules to control various sensors and actuators.

4) IoT SMART HEALTH - health care with IoT technology.
biomedical signal generation on wearable devices and usage of IFTTT service

5) Wireless Sensor Network Platforms
Home, Health, Environmental Networks

6) Fundamentals Practice

a) W2C Communication : 7 Wireless communication including LoRA and 7 wired communication learning with

sensor and actuator block for experiments

b) PyBasic – Understanding Programming Syntax for Python3 & C/C++ AIoT programming for data science and AI learning

c) Embedded Platform ES101 - Embedded Convergence Platform with USB Accelerator for Edge Tensor Processing

7) Communication Protocol study - AVIONICS, CAN , LIN

8) Robotics - AI Biped Humanoid type, Modular, RoboCar

9) PC Base Control HMI Based Industrial Sensor Teaching systems and many more

10) Augmented and Virtual Reality Learning Platform with Devices, 360 Camera and Courseware text book

11) RTOS SMART STEERING CAR Autonomous Drive - using LIDAR with optional OSEK/VDX

(ISO Standard OS/Embedded platform developed by all European Car manufacturers including Benz/BMW/Renault

12) Mission Drone - LIDAR based with GOC and GPS mission learning

and others.

All our Integrated Platforms are available in the link provided below:

https://drive.google.com/drive/folders/1itHvLtHTHVoPw5A_J_CpycMma5W6E34n?usp=sharing

Please inform a suitable date for presentation in advance.

We request you to invite faculty from other departments as well,

Thanking you,



V Rajendra Prasad

Chief Executive
Quality Quest Engineers
76/60 Aziz Mulk Third Street
Thousandlights
Chennai : 600006
Tamilnadu, India
Ph: +91 44 28291432
HP : +91 9840092362
www.qualityquestengineers.com

3 attachments



AIOT Edge AI.rar
2248K



QQE Integrated Product Catalog 2020 Ver.1.pdf
2700K



AI and IOT Integrated Platforms.rar
5016K

SRI VENKATESWARA COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

20October 2020

To

Mr. V. Rajendra prasad

CEO

Quality Quest Engineering

Chennai

Dear Sir,

Subject: Invitation – Chief Guest for Special Talk on “Opportunities offered by
Emerging Technologies-AI and IoT”- reg.

At the outset we would like to thank you for your graceful acceptance of our invitation to deliver Special Talk on “Opportunities offered by Emerging Technologies-AI and IoT” on 22nd October 2020, 10am onwards

Department of IT engages in several activities like Workshops, Expert Lectures, Symposia and Industrial visits aimed to benefit our students and faculty members. These activities equip them to sharpen their technical skills and create awareness & bonding among our students.

Department of IT looks forward to your presence amongst our faculty members & students for sharing of your valuable thoughts and advice on this topic will definitely benefit them.

We thank you once again for accepting our invitation. We eagerly await the interaction with you to enrich our faculty members with your expertise.

Thank you.

Yours sincerely,



(Dr. V. Vidhya)

HoD /Information Technology

SVCE.



UMA N IT <numa@svce.ac.in>

AIT guest lecture invitation programme

2 messages

HOD IT <hodit@svce.ac.in>

Wed, Oct 21, 2020 at 7:40 PM

To: Secretary SVCE <secretary@svce.ac.in>, Principal SVCE <principal@svce.ac.in>, HODs Group <hod@svce.ac.in>, Faculty Group <svcefaculty@svce.ac.in>

Dear Sir/Madam,

On behalf of our AIT and SVCE family, I would like to welcome you all to join us for a special talk on

"Opportunities offered by Emerging Technologies-AI and IoT"

to be held on 22nd October 2020 between 10.00 am to 11.00 am

Attaching herewith the formal invitation and agenda for your kind reference.

All are welcome!

 **invitation2.pdf**
75K

UMA N IT <numa@svce.ac.in>

Wed, Oct 21, 2020 at 10:05 PM

To: 2018 it students <2018itstudents@svce.ac.in>, 2017 IT Students Group <2017itstudents@svce.ac.in>, 2019 IT GROUP <2019itstudents@svce.ac.in>

[Quoted text hidden]

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N.UMA,
Assistant Professor,
Department of Information Technology,
Sri Venkateswara College of Engineering.

 **invitation2.pdf**
75K



**SRI VENKATESWARA COLLEGE OF
ENGINEERING**

Pennalur, Sriperumbudur Taluk - 602117



ASSOCIATION OF INFORMATION TECHNOLOGISTS

&

DEPARTMENT OF INFORMATION TECHNOLOGY

solicit your esteemed presence for the

Special Talk

on

Opportunities offered by Emerging

Technologies-AI and IoT

by

Mr. V. Rajendra prasad

CEO

Quality Quest Engineering

Chennai

Venue : Google Meet <https://meet.google.com/ocp-cfur-jgv>

Date : 22nd October 2020

Time : 10.00 AM





SRI VENKATESWARA COLLEGE OF ENGINEERING

Pennalur, Sriperumbudur Taluk - 602117



AGENDA

DATE : 22.10.2020
TIME : 10.00 AM
VENUE : Google Meet <https://meet.google.com/ocp-cfur-jgv>



- Welcome address
- Introduction of Chief Guest
- Short note by HOD
- Special talk by Chief Guest
- Questionnaire and Feedback
- Vote of Thanks

Coordinators:

V. Rajaram AP/IT

N. Uma AP/IT

FEEDBACK

Timestamp	Email id	Register number	Name	Year	How satisfied were you with the event?	How satisfied were you with the session content?	Suggest some topics for the upcoming events.	Any additional comments ?
10/22/2020 8:57:04	check@gmail.com	170801101	Check	III	5	4	Check	
10/22/2020 11:16:01	2018it0095@svce.ac.in	180801036	Ganesh G	III	5	5	cyber security	
10/22/2020 11:16:24	2018it0414@svce.ac.in	180801058	Malini A R	III	5	5	No suggestions	The session was informative and useful
10/22/2020 11:16:34	2018it0158@svce.ac.in	180801057	Madhumitha E	III	4	4	Cyber security	
10/22/2020 11:16:40	2018it0068@svce.ac.in	180801109	YashwanthKumar V	III	5	5	Deep learning concepts	
10/22/2020 11:16:43	sudharam611@gmail.com	180801092	SUDHA R	III	5	5	Nil	Nil
10/22/2020 11:17:00	2018it0615@svce.ac.in	180801050	Joann Nittika	III	4	4	ML	No
10/22/2020 11:17:02	2018it0529@svce.ac.in	180801034	Divyashree	III	4	4	Cyber Security	
10/22/2020 11:17:08	nandha20nandha20@gmail.com	180801066	Nandha Ramasamy G	III	4	4	5G	
10/22/2020 11:17:09	ajaykumarr3024@gmail.com	180801008	Ajay Kumar R	III	5	5	AI, GCP	
10/22/2020 11:17:14	2018it0083@svce.ac.in	180801095	Swathi E	III	4	4	Event on machine learning	no comments
10/22/2020 11:17:14	2018IT0093@svce.ac.in	180801102	Vaishnavi P	III	5	5	Machine learning	No
10/22/2020 11:17:18	2018it0788@svce.ac.in	180801025	BHUMA TEJASWI	III	4	5	IoT	
10/22/2020 11:17:22	2018it0717@svce.ac.in	180801076	Rithika. G	III	5	5	Cyber security and ethical hacking	
10/22/2020 11:17:24	2018it0851@svce.ac.in	180801075	Rahul prasanth. K	III	5	5	.	
10/22/2020 11:17:30	2018it0262@svce.ac.in	180801037	GOKUL G	III	5	5	5G netwrk	
10/22/2020 11:17:33	2018IT0611@svce.ac.in	180801067	NAVISH VARDANAA .S	III	4	4	no	no
10/22/2020 11:17:43	monishmoni55555@gmail.com	180801064	Monishkumar M	III	5	5	Recent trends and problems faced by IT corporation	
10/22/2020 11:17:45	2018it0155@svce.ac.in	180801086	Sivakumaaran P	III	5	5	AI advanced Concepts	
10/22/2020 11:17:46	meenakshin@svce.ac.in		Meenakshi P	Facul	5	5	Workshop	Very informativ

10/22/2020 11:17:49	2018it0159@svce.ac.in	180801045	Janani J N	III	4	4	RAP	
10/22/2020 11:17:50	mgokulnath05@gmail.com	180801038	Gokulnath.M	III	4	4	Machine learning	Overall, the session was quite informative and good!
10/22/2020 11:17:57	2018it0861@svce.ac.in	180801078	Roshini S	III	5	5	Artificial intelligence	
10/22/2020 11:18:10	Aishmurali2000@gmail.com	180801007	M. Aishwarya	III	5	5	How to prepare yourself for placements.	
10/22/2020 11:18:12	ajaykumarr3024@gmail.com	180801008	Ajay Kumar R	III	5	5	AWS, GCP, NLP	
10/22/2020 11:18:44	2018it0270@svce.ac.in	180801001	Aarthi K	III	5	5	Block chain	
10/22/2020 11:18:45	Thilakeshtech@gmail.com	180801100	A.Thilakesh Raj	III	5	4	Virtual reality	Super
10/22/2020 11:18:47	2018it0414@svce.ac.in	180801058	Malini A R	III	5	5	No suggestions	The session was informative and useful
10/22/2020 11:18:56	nachachitra@gmail.com	180801027	CHITRA S	III	5	5	Cyber Security	Good
10/22/2020 11:19:09	2018it0280@svce.ac.in	180801073	Premavathi R	III	4	4	-	-
10/22/2020 11:19:17	2018it0161@svce.ac.in	180801033	Divya T	III	5	5	deep learning	no
10/22/2020 11:19:24	2018it0608@svce.ac.in	180801028	Deepika V	III	5	4	Recent tools and technologies in IT	Informative session
10/22/2020 11:19:30	2018it0776@svce.ac.in	180801084	M.Sherwin samuel	III	5	5	No topics	No comments
10/22/2020 11:20:22	2018it0283@svce.ac.in	180801003	Abilash K	III	4	5	Information security	
10/22/2020 11:20:25	sribalajimsb7@gmail.com	180801088	Sri Balaji M	III	5	5	Events regarding Artificial Intelligence	No.
10/22/2020 11:21:14	2018it0662@svce.ac.in	180801074	Priyadarshini v	III	4	4	Hologram	
10/22/2020 11:22:03	2018it0029@svce.ac.in	180801030	Dhanya C	III	4	4	Quantum Computing	
10/22/2020 11:22:27	2018it0052@svce.ac.in	180801068	Nilavezhil K	III	5	5	Cyber Security	No
10/22/2020 11:23:00	2018it0105@svce.ac.in	180801026	Chandramoulee. K.V	III	4	4	competitive programming	we need more assistance in competitive

10/22/2020 11:25:18	2018it060@svce.ac.in	180801031	Dharshan V	III	5	5	Cybersecurity, Machine learning	Well organized
10/22/2020 11:27:59	2018it0127@svce.ac.in	180801110	Yogalakshmi S	III	5	4	Data science	
10/22/2020 11:28:47	snehamuthukumar3@gmail.com	190801077	SNEHA M	II	5	5	Cyber Security, Block Chain Technology	
10/22/2020 11:34:43	2019it0522@svce.ac.in	190801053	B.N.POONAM	II	5	5	Big Data Analysis	The event took place very well. It was very eye opening and useful. The videos he showcased were very different and interesting !!!
10/22/2020 11:36:38	2018it0152@svce.ac.in	180801099	THAMODARAN M	III	4	4	Data science	
10/22/2020 11:41:45	2018IT0394@svce.ac.in	180801056	M S Madhan Kumar	III	4	4	New Web technologies	
10/22/2020 11:57:38	manasatagore07@gmail.com	180801059	Manasa	III	4	4	Quantum computing	Good valuable session
10/22/2020 12:10:54	2018it0165	180801012	Akilesh G	III	5	5	Some awareness program	
10/22/2020 12:49:16	2018it0618@svce.ac.in	180801093	R.Suhail Ahamed	III	4	4	nothing	
10/22/2020 13:33:49	abisha066@gmail.com	180801083	SELVA ABISHA D	III	4	5	Nil	

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Report

Special Talk:

Chief Guest: Mr. V. Rajendra Prasad, CEO, Quality Quest Engineering, Chennai
Target Audience: 3rd year A and B section
Venue: Google Meet (Online platform)
Date & Time: 22.10.2020, 11:00 AM

Objective:

- To get an exposure about the new opportunities arising due to the emerging technologies in fields like IoT and AI

On the 22nd of October 2020, a special talk on “**Opportunities offered by Emerging Technologies-AI and IoT**” was delivered by Mr. V. Rajendra Prasad, CEO, Quality Quest Engineering, Chennai.

The welcome address and prayer was given by Ms. Kaaviya Baskaran, President of AIT. Introduction of the Chief Guest was given by Ms. M. Sneha, Executive Member of AIT and the event was compered by Mr. R. Tarun, Vice President of AIT. Dr. V. Vidhya, Head of the Department gave a short note about the topic.

The session lasted for about one hour. The chief guest gave a talk on the below mentioned points:

1. Introduction to Internet of Things
2. The various IoT platforms (Application Domains and Hardware Platforms)
3. Introduction to Artificial Intelligence
4. A short talk on AndroX StudioTM
5. How IoT uses Cortex M4

The students were motivated and highly benefitted by the talk. Questions were raised by students during the Q&A session which were answered by the Chief Guest. The session came to an end with thank note by Head of the Department and she motivated students to participate in many activities and to learn more. Further, the feedback forms were filled by the students at the end of the session. Ms. B. N. Poonam, Executive Member of AIT, delivered the vote of thanks.

Outcome of the program:

- Faculty and students exposed and gained knowledge regarding the IoT and AI fields.
- Faculty and students have gained idea about the emerging technologies, AndroX StudioTM, Cortex M4 and their applications.



AIT Coordinators



HOD/IT