



JEYA PRABHA T J ECE &lt;jprabha@svce.ac.in&gt;

## Invitation for Webinar (20/9/20) on 5G

JEYA PRABHA T J ECE <jprabha@svce.ac.in>  
To: HOD EC <hodec@svce.ac.in>

Thu, Sep 17, 2020 at 10:26 PM

Respected Sir,  
Kindly forward the flyer on our next event under SVCE-ISF to all faculty of SVCE.  
Thanks & Regards  
T J Jeyaprabha  
SVCE ISF Coordinator

Dear All,

Greetings from **IETE SF SVCE !!**  
Scientists discover the world that exists ; Engineers create the world that never was.

**Happy Engineer's Day 🧑🏫 🧑🏫 !!**

Hey Guys !

Have you been curious all these days to know

**What is \*5G?\***

#Learn everything you need to know about 5G

# Is 5G factual or HOAX 🤔

Come attend our webinar to know answers for all your doubts on 5G !!

**Date** 📅 20 /09/2020

**Day** 📅 Sunday

**Time** 🕒 6.00-7.00pm

**Topic :** " \*5G\*

**And its  
History "**

By

**Mr.Sundar palaniraj**

**Register here** 📌

<https://tinyurl.com/5g-and-its-history>

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**Thanks and Regards**  
**IETE Student Forum SVCE**



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## REPORT ON WEBINAR

### “5G AND IT’S HISTORY”

The webinar was organized by the IETE student forum in association with Placement cell of Sri Venkateswara College of Engineering. The technical talk was delivered by Mr.Sunder Palaniraj, Director IC-design, TDK InvenSense on 20/09/2020 from 6:00 PM to 7:00 PM (Sunday). 90+ participants actively participated in the webinar.

Sri Venkateswara College Of Engineering  
Department of Electronics and Communication Engineering  
The Institution of Electronics and Telecommunication Engineers  
In Association with Placement Cell  
Presents  
**"5G AND IT'S HISTORY"**  
A Technical Webinar by  
**Mr.Sunder Palaniraj**  
Director IC Design  
MEMS Sensors Business Group  
Sensor Systems Design Company

REGISTER HERE  
<https://tinyurl.com/5g-and-its-history>  
20th September, 2020  
6-7Pm

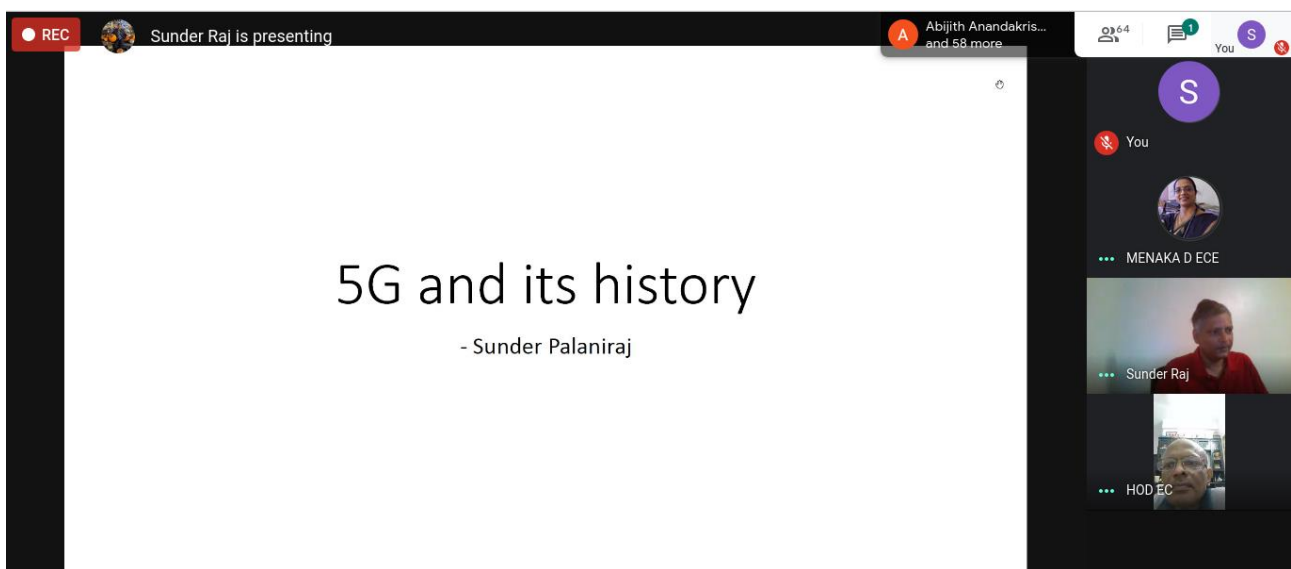
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### FLYER OF WEBINAR “5G AND IT’S HISTORY”

Mr.Sunder Palaniraj graduated from Government college of Engineering, Salem and has completed his masters at Monmouth University, USA. He has worked as an Application Specific Integrated Circuit (ASIC) Engineer at General Instruments and Sun Microsystems for three years each. He

also worked for Terayon Communications as a Senior ASIC engineer and as an ASIC Design manager. He has worked as the Director of digital VLSI at SiPort for 6 years. He was also a senior manager at Intel Corporation. He was the ASIC director at Keyssa for 4 years. He is currently working for InvenSense, A TDK group company as the Director IC-design.

Ms.D.Menaka,SVCE-ISF Coordinator delivered the welcome address. Dr.S.Muthukumar,Head of the Department,dept. of ECE welcomed the speaker and the participants. Mr.Thanigaivel, Honorary Treasurer IETE-SF introduced the speaker. The webinar was anchored by Ms.B.Amirta Josna,Executive member IETE-SF.



The session progressed with the expert talk by Mr.Sunder Palaniraj. He gave a detailed outlook on 5G and it's history.

**Some of the key points discussed in webinar were:**

The Speaker commenced with the history of communication and the differences among the features of 1G, 2G, 3G, 4G and 5G. He explained about the access systems and core networks used in different generation technology. We got a clearer insight on the data rate and latency of the communication networks. He went on and detailed us with the applications of the different generation technologies. The speaker talked about the standards and the companies involved in each of the communication network. He also explained the IoT standard and the speed and latency involved in 5G. He spoke about the triple play and the marketing field of 5G based on different industries. The speaker proceeded to talk about the various advantages and applications of NB-IOT (Narrowband). He filled us in with all the opportunities for the 5<sup>th</sup> Generation of communication technology.

History of Communication

Features	1G	2G	3G	4G	5G
Start/Development	1970/1984	1980/1999	1990/2002	2000/2010	2010/2015
Technology	AMPS, NMT, TACS	GSM	WCDMA	LTE, WiMax	MIMO, mm Waves
Frequency	30 KHz	1.8 Ghz	1.6 - 2 GHz	2 - 8 GHz	3 - 30 Ghz
Bandwidth	2 kbps	14.4 - 64 kbps	2 Mbps	2000 Mbps to 1 Gbps	1 Gbps and higher
Access System	FDMA	TDMA/CDMA	CDMA	CDMA	OFDM/BDMA
Core Network	PSTN	PSTN	Packet Network	Internet	Internet

• Credit: <https://www.gizmag.com/history-of-communication/>, <http://net.information.com/g/4/4/1/generations.html>  
 • PSTN: public switched telephone network

Data rate and Latency

Generation	Data rate	Latency
2G	100–400 Kbit/s	300–1000 ms
3G	0.5–5 Mbit/s	100–500 ms
4G	1–50 Mbit/s	< 100 ms
5G (estimated)	100 – 400Mbit/s	~30 ms

**SESSION BY Mr.SUNDER PALANIRAJ(SPEAKER)**

The session was very interactive and informative. The chief guest speaker was also keen on the “Q&A” session and answered the active queries put forth by the participants. The organizing team was also praised by the Chief Guest speaker for planning and executing the webinar.

The session concluded with a Vote of Thanks by Ms.T.J.Jeyaprabha,SVCE-ISF Coordinator.

**Participant Details:**

**Total Number of Participants: 90+**

There was an active participation of students from different colleges and an enthusiastic participation from different departments of the college.

**SVCE-ISF team comprising of**

**Chief Patron-** Dr.S.Ganesh Vaidyanathan,Principal, SVCE,

**Convener-** Dr.S.Muthukumar, Professor, HOD, ECE,

**SVCE-ISF coordinator-**Ms.T.J.Jeyaprabha,

**SVCE-ISF coordinator-**Ms.D.Menaka,

**Chairman-**Mr.Maurya Vijayaramachandran,(IV Year ECE),

**Honorary Secretary-**Mr.R.Vishnusai(III Year ECE),

**Honorary Treasurer-**Mr.M.Thanigaivel(III Year ECE),

**SVCE-ISF Executive Members:**

Mr.B.Akilesh Kumar (II Year ECE),

Mr.A.Kenwin Patrick (II Year ECE),

Mr.N.Siddique Afraaz (II Year ECE),

Ms.B.Amrita Josna (II Year ECE),

Ms.S.Krishnapriya (II Year ECE),

Ms.D.Saalini (II Year ECE)

synchronized well in communicating the significance of the webinar to the SVCE student fraternity and coordinated for the successful execution of the event.

# SRI VENKATESWARA COLLEGE OF ENGINEERING

Autonomous-Affiliated to Anna University  
Department of Electronics and Communication Engineering



**THE INSTITUTION OF ELECTRONICS AND  
TELECOMMUNICATION ENGINEERS**  
IN ASSOCIATION WITH  
**PLACEMENT CELL**  
PRESENTS



## 5G AND ITS HISTORY

*Certificate of Participation*

This is presented to

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for participating in the webinar on "5G AND ITS HISTORY" organised by The Institution of Electronics and Telecommunication Engineers-Students Forum of SVCE on 20-09-2020.

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**Ms. T. J. JEYAPRABHA**  
ISF COORDINATOR



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**Dr. S. MUTHUKUMAR**  
HOD - ECE

Timestamp	Email Address	Name of the participant with Salutation(Mr. /Mrs. / Dr./Prof.)
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Are you an existing member of	Phone Number	Video and Audio quality	Clarity of Concept by Speaker	How far the was webinar useful?
Yes	9790997995	Very Good	Very Good	Informative
Yes	8680935778	Excellent	Excellent	Good
No	9080288165	Excellent	Excellent	about 90%
No	9790009907	Very Good	Excellent	Good
Yes	7550152770	Excellent	Very Good	It was so good.
Yes	7339535388	Very Good	Very Good	Entire webinar
Yes	6380573270	Good	Good	Useful
Yes	9952051048	Excellent	Excellent	Really interesting and useful
No	9486427904	Excellent	Very Good	Informative
No	9442766712	Excellent	Excellent	Informative Session
Yes	7010198236	Very Good	Excellent	Yes
No	6374258020	Very Good	Very Good	Very very informative
Yes	9597885905	Very Good	Very Good	It's very useful to get know about ne
No	9841222106	Excellent	Excellent	Very informative and useful
No	9443813896	Very Good	Very Good	Useful
Yes	9361370133	Very Good	Very Good	gained knowledge on 5G
Yes	8903712907	Very Good	Good	Good
Yes	9498869156	Excellent	Excellent	excellent
Yes	7338851052	Very Good	Excellent	Excellent webinar by the iete forum
No	9789304533	Very Good	Very Good	Very informative session
No	9790843155	Excellent	Excellent	Yes
Yes	8072509651	Excellent	Very Good	Very useful
No	6383467754	Very Good	Good	Yes
Yes	9600041569	Excellent	Excellent	Very useful
Yes	9629250575	Excellent	Excellent	Good information
No	89398023333	Very Good	Very Good	session
Yes	8939157150	Excellent	Excellent	good
Yes	8056673333	Excellent	Excellent	Very useful
No	9600070089	Very Good	Very Good	Very useful.
Yes	9150769761	Excellent	Excellent	Very useful
Yes	9150722976	Excellent	Excellent	5G works which I lagged before
No	6381916038	Excellent	Very Good	It was informative .
Yes	6385826339	Excellent	Excellent	It is very interesting
No	8939337572	Excellent	Very Good	NA
Yes	6379220266	Excellent	Excellent	very useful
Yes	8925623856	Very Good	Excellent	YES
Yes	9677037041	Excellent	Excellent	Useful
Yes	6383461823	Very Good	Very Good	very useful
Yes	6380378409	Excellent	Excellent	It is very much useful
Yes	8056078063	Very Good	Very Good	Very useful
Yes	7010210180	Good	Very Good	knowledge about 5g
Yes	7010030490	Very Good	Very Good	very much useful
No	9789623092	Excellent	Excellent	Met expectations
No	9442766712	Excellent	Excellent	
Yes	8870726262	Very Good	Very Good	attending the webinar
Yes	9150167579	Very Good	Very Good	Informative
No	9360328737	Very Good	Very Good	GOOD

No	6300850353	Very Good	Good	Very useful
No	9585148467	Excellent	Excellent	Very useful
Yes	9941881650	Excellent	Excellent	It kindled my interest on communica
Yes	6369312055	Very Good	Very Good	It was good and useful
Yes	9498357200	Excellent	Excellent	It was very informative. The speaker
Yes	8610801840	Very Good	Very Good	Very useful
Yes	8825635679	Very Good	Excellent	very informative and useful
Yes	6383936658	Excellent	Excellent	very useful
No	6374542426	Excellent	Excellent	Very useful
Yes	9442673964	Very Good	Very Good	Got to know something!
Yes	9962401480	Excellent	Excellent	Very useful
No	7995804033	Excellent	Very Good	it tweaked my interest in 5G
Yes	9.19841E+11	Excellent	Excellent	Very interesting topic
No	9789592509	Excellent	Excellent	Good
No	9791039280	Excellent	Excellent	field of 5G. This event helped me
Yes	7397235424	Excellent	Excellent	Great to know soo much about 5G
No	7010747692	Excellent	Excellent	It was very useful to improve our kno
Yes	9176316456	Excellent	Excellent	Very much
Yes	9042869403	Very Good	Excellent	I have gained some knowledge.
No	9095256804	Very Good	Very Good	Session act as recap on existing net
Yes	8939476942	Very Good	Very Good	I learned many new things
No	8248783426	Very Good	Very Good	new stuff about 5G
Yes	9655506927	Very Good	Very Good	It's like an informative session and b
No	8072900682	Excellent	Excellent	It enhanced my skills
Yes	7092176320	Excellent	Excellent	I learnt a lot about 5g technology
No	8072900682	Excellent	Excellent	Enrich knowledge
No	7871859519	Very Good	Very Good	Very useful
No	9962925404	Very Good	Good	Good
Yes	6380877487	Very Good	Very Good	Nice information
Yes	6380877487	Very Good	Very Good	Good information
Yes	8248698383	Excellent	Excellent	Very Useful
Yes	9962551264	Excellent	Excellent	Very useful
Yes	9840536121	Excellent	Excellent	Excellent
No	9361307388	Very Good	Very Good	about 5G.
Yes	9840879526	Excellent	Excellent	Excellent
Yes	9790397433	Excellent	Excellent	Excellent
Yes	9487716411	Very Good	Excellent	Good exposure to 5g
No	7397614905	Good	Good	Nice
No	7397547485	Very Good	Very Good	Good and effective
Yes	9003188613	Very Good	Very Good	

Any other comments			
good			
Remain the same			
-			
It was good			
Nope			
w things			
NIL			
Interesting session			
.			
No			
Nil			
Nil			
Good			
Nil			
Nil.			
Nothing			
Expecting webinars on IOT and embedded system..			
NA			
If the guests are youth it would be more fun and more useful.			
No			
Nil			
Good			
Very informative			
Good session			
Nil			
INTERESTING			

Nothing			
tion field			
r gave us a detailed explanation on various field as well.			
none			
Nothing			
it would have been better if the content is a bit more specific then general			
Excellent coordination and execution by organizing team members			
Thank you.			
nowledge in 5G communications.			
He is simply the best.			
No			
etwork technologies and development of 5g along with its need for the development			
Nothing			
Keep organising good events			
asic knowledge about the generation networks and its future need.			
Nil			
The webinar was excellent and the presentation was extraordinary.			
N			
Very interesting webmeet			
No			
No			
N/A			
No			
Nil			
Nil			
Nil			
Noo			
Noo			