

K S R COLLEGE OF ENGINEERING, TIRUCHENGODE

(Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University

Chennai

ORGANIZED BY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

GUEST LECTURE

ACADEMIC YEAR: 2019-2020

TITLE

“RECENT TRENDS IN MOBLIE COMMUNICATION”

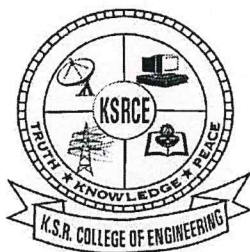
On

03.09.2019

Co-ordinator: Mrs.P. Thilagavathi, ASP/ECE




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K.S.R. COLLEGE OF ENGINEERING
K.S.R. KALVI NAGAR,
TIRUCHENGODE-637 215



**K.S.R.COLLEGE OF ENGINEERING: TIRUCHENGODE – 637215
(Autonomous)**

Event Schedule and Report

| | | |
|----------|--|--|
| 1 | Name of the Event (Seminar/Workshop/Conference/FDP/Any other) | Guest Lecture on Recent Trends in Mobile Communication |
| 2 | Name of the Department | Electronics and Communication Engineering |
| 3 | Date of the Event | 03.09.2019 |
| 4 | Venue | Seminar Hall |
| 5 | Title of the Event | Guest Lecture on Recent Trends in Mobile Communication |
| 6 | Name of the Co-ordinators | Mrs.P.Thilagavathi , Associate Professor/ECE |
| 7 | Total Participants | 163 |
| 8 | Objectives of the Event | This Guest Lecture provides students a better opportunity to learn about the fundamentals of Mobile communication and Wireless Technologies. It also gives new prospects and ideas that can open student's eyes to new possibilities which can help them to achieve more with less effort. |




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K.S.R. COLLEGE OF ENGINEERING (Autonomous), Tiruchengode –637215
Department of Electronics and communication Engineering Organizes
“Guest Lecture on Recent Trends in Mobile Communication”

On 03.09.2019

Report of the Program

Intent of Guest Lecture:

Skill development is mandatory among the students and gives students a better opportunity to learn about an explicit topic in a way that gets them involved in the class and actively join in a more convenient way of teaching. Keeping this in mind, “Guest Lecture on Recent Trends in Mobile Communication” is organized.

Theme of Guest Lecture:

We can say that wireless phone standards have a life of their own since they are spoken of reverently in terms of generations. The ancient stone-age sounding 1G, or analog cellular, then like 80’s rock came 2G, or digital cellular; 3G wireless, 4G, 5G and so on. The last decade stood witness to remarkable burgeoning in the wireless industry, both in terms of mobile technology and its subscribers. With all the technological advances, and the simultaneous existence of the 2G, 2.5G, 3G and 4G networks, the impact of services on network efficiency have become even more critical. And the latest addition to this group, is the 5G technology, which promises to revolutionaries Internet as we know it with lightning fast speeds.

So, the last decade stood witness an astounding growth in the network communication industry. The ever-increasing demands of users triggered research and led to development of various generations of technologies, which recently lead to a comprehensive manifestation of upcoming 5G system.

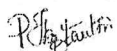
Thus, Keeping all these concepts into consideration, this guest lecture titled “Guest Lecture on Recent Trends in Mobile Communication” was organized on 3rd September 2019.

Topics Covered:

The Programme is designed in such way that the participants start with learning about wireless standards and various generation of mobile technology from 1G to 5G. The following research topics were discussed in the Guest Lecture to enhance the knowledge on mobile technology.

- Introduction to wireless standards
- Evolution of Cellular Mobile communication
- GSM Basics
- CDMA principles
- Digital Modulation Techniques
- OFDMA & LTE(4G)
- Overview of 5G
- IP networking in Mobile communication
- IMS-Multimedia over IP
- BSNL WINGS—First commercial VoIP services in India
- IOT(Internet Of Things) – networks & M2M
- MDO-Mobile Data Offloading

Overall, updated and useful research methodologies were discussed in connection with the development of various generation of mobile technology.



Co-ordinator



HOD/ECE



Principal




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KSRCE/QM/8.2.4/5.3/ECE

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Department of Electronics and Communication Engineering

Date: 27.08.2019

Submitted to the principal

Sub: Requisition to conduct Guest lecture - Reg.

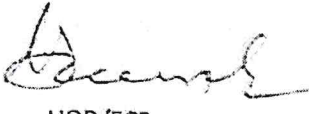
We have planned to conduct IETE sponsored Guest lecture on "Recent trends in Mobile Communication" for ECE students on 03.09.2019 from 9.30a.m to 2.00p.m. So we request you to grant the permission to conduct the Guest lecture on above mentioned date with a financial assistance of Rs.4000/-

Resource person: Mr.Madhavan.T.R, Sub Divisional Engineer, 4G Mobile switching centre,
BSNL- Tamilnadu Circle.

MANAGING TRUSTEE
27/8/19
IETE Coordinator

P.Thilagavathi,ASP/ECE

AJayamathi,ASP/ECE


HOD/ECE




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WE CORDIALLY INVITE YOU ALL FOR THE GUEST LECTURE

On

“RECENT TRENDS IN MOBILE COMMUNICATION”

Lion Dr. K.S.RANGASAMY.,MJF,

**Founder and Chairman, K.S.R. Group of Institutions,
Tiruchengode.**

Will kindly consented to deliver the Presidential Address

Thiru. R.SRINIVASAN,B.B.M,MISTE.,

**Vice Chairman, K.S.R. Educational Institutions,
Tiruchengode.**

Will kindly consented to deliver the Felicitation Address

Dr.P.SENTHILKUMAR,

**Principal,
K.S.R.College of Engineering, Tiruchengode.
*has kindly consented to preside over the function***

Chief Guest

Mr.MADHAVAN.TR

**SUB DIVISIONAL ENGINEER,4G MOBILE SWITCHING CENTRE,
BSNL-TAMILNADU CIRCLE**

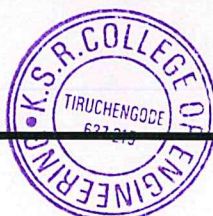
Coordinator :Mrs.P.Thilagavathi, Associate Professor/ECE

Date:03.09.2019

Time:9.30 A.M

Venue :MCA Seminar Hall

ALL ARE WELCOME



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TIRUCHENGODE-637 215**

AGENDA

- Invocation** : ECE Students
- Welcome Address** : Dr.P.S.Periasamy,
Professor and Head,
Department of ECE,
K.S.R.College of Engineering,
Tiruchengode.
- Presidential Address** : Lion Dr. K.S.RANGASAMY.,MJF,
Founder and Chairman,
K.S.R. Educational of Institutions,
Tiruchengode.
- Felicitation Address** : Thiru. R.SRINIVASAN,B.B.M,MISTE.,
Vice Chairman,
K.S.R. Educational Institutions,
Tiruchengode.
- Felicitation Address** : Dr.P.SENTHILKUMAR,
Principal,
K.S.R.College of Engineering,
Tiruchengode.
- Inaugural Address** : Mr.MADHAVAN.TR
SUB DIVISIONAL ENGINEER,
4G MOBILE SWITCHING CENTRE,
BSNL-TAMILNADU CIRCLE

Vote of Thanks



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(Autonomous)

K.S.R. Kalvi Nagar, Tiruchengode - 637 215, Namakkal Dt. TamilNadu



DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING

IETE SPONSERED GUEST LECTURE
ON

RECENT TRENDS
IN MOBILE COMMUNICATION

DATE : 03.09.2019

VENUE : MCA Conference Hall



Principal
K.S.R. College of Engineering
K.S.R. Kalvi Nagar,
Tiruchengode-637 215

Profile

MADHAVAN TR

SUB DIVISIONAL ENGINEER, 4G MOBILE SWITCHING CENTRE, BSNL-TAMILNADU CIRCLE

DOB: 08-11-1971,

Mobile: 9486100113

Email: madhut1971@yahoo.com

-----Education-----

MSC (Electronics and communication) 1992

National college

Trichy.

MBA (Systems) 2005

Alagappa university

Karaikudi.

-----Professional Summary-----

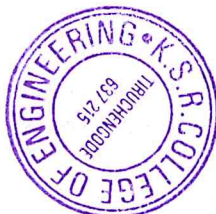
Joined Department of Telecom as Junior Telecom Officer in May 1996. Focused and diligent Telecommunication Engineer with broad experience in Landline and mobile telecommunication system installation. Highly skilled at coordination and integration of telecommunication infrastructure with other facility engineering systems. Expertised in operation & maintenance of 2G, 3G & 4G mobile network systems.

-----Career History-----

- From Jun 2018: Sub divisional Engineer, 4G Mobile switching centre, BSNL-Tamilnadu circle
- From Nov 2009 to May 2018: Sub divisional Engineer, 3G Mobile switching centre, BSNL-Tamilnadu circle
- From Jul 2006 to Oct 2009: Sub divisional Engineer, Gateway Mobile switching centre, BSNL-Tamilnadu circle
- From Jan 2002 to Jun 2006: Sub divisional Engineer, Newtech Installation, BSNL-Tamilnadu circle
- From Mar 1996 to Dec 2001: Junior Telecom Officer, Newtech Installation, BSNL-Tamilnadu circle

-----Skills-----

- Thorough knowledge on Mobile networking systems and their communication protocols
- Plan, design and maintenance of IP networking for telecom networks
- Handling Implant training sessions on mobile communication for Engineering college students
- Providing Guest Lectures/Speeches on Mobile communication in Seminars/workshops held in Engineering colleges.




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Guest lecture on "Recent trends in mobile communication" on 03.09.2019

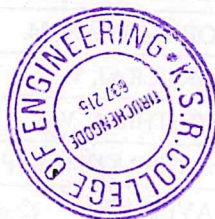
LIST OF PARTICIPANTS

| S.NO | REG. NO. | NAME OF THE STUDENT | Signature |
|------|----------|-------------------------|---------------------|
| 1. | 1815001 | ARUNPRAKASH .D | Arunprakash .D |
| 2. | 1815004 | GANGAA SRI .S | Gangaa .S. |
| 3. | 1815005 | GOPIKA .V | V. Gopika |
| 4. | 1815006 | JONISHA .M | M. Jonisha |
| 5. | 1815008 | KARTHIKEYAN .K | Karthikeyan .K |
| 6. | 1815009 | KAVIYA .A | A. Kaviya |
| 7. | 1815010 | KEERTHANA .S | S. Keethana |
| 8. | 1815011 | MONISHA .S | S. Monisha |
| 9. | 1815013 | NIVETHA .P | P. Nivetha |
| 10. | 1815014 | POOJA .P | P. Pooja |
| 11. | 1815015 | POOJA PRIYADHARSHINI .R | R. Pooja |
| 12. | 1815016 | SALAMUDEEN .K.S | K.S. Salamudeen |
| 13. | 1815017 | SARAN .M | M. Saran |
| 14. | 1815018 | SARAVANAN .V | V. Saravanan |
| 15. | 1815019 | SELVAKUMAR .S | S. Selvakumar |
| 16. | 1815020 | SENTHIL KAASI .R | R. Senthil kaasi |
| 17. | 1815021 | SIVA .U | U. Siva |
| 18. | 1815023 | SRIVANAN .K | K. Srivanan |
| 19. | 1815024 | SUDHARSAN .V.T | T. Sudharsan |
| 20. | 1815025 | SURYAPRAKASH .R | R. Suryaprakash |
| 21. | 1815026 | SWETHA .G | G. Swetha |
| 22. | 1815028 | VIGNESHWARAN .M.S | S. Vigneshwaran |
| 23. | 1815029 | VIJAYALAKSHMI .G | G. Vijayalakshmi |
| 24. | 19LEC01 | BALAMURALIDHARAN .K.R | R. Balamuralidharan |
| 25. | 19LEC03 | DEEPAK .K | K. Deepak |
| 26. | 19LEC04 | GUNA .T | T. Guna |
| 27. | 19LEC05 | HARIHARAN .R | R. Hariharan |
| 28. | 19LEC06 | HINDHUSHA .S | S. Hindhusa |
| 29. | 19LEC08 | PAVITHRAN .S | S. Pavithran |
| 30. | 19LEC09 | PRAVEENKUMAR .D | D. Praveenkumar |
| 31. | 19LEC11 | SARAN .S | S. Saran |
| 32. | 19LEC12 | SIVA ABHISHEK .R | R. Siva abhishek |
| 33. | 19LEC13 | SRIDHARAN .P | P. Sridharan |
| 34. | 19LEC14 | KAVINRAJ. | J. Kavinraj |
| 35. | 1715001 | AARTHI .E | E. Arathi |
| 36. | 1715002 | ABISHEK .C | C. Abishek |
| 37. | 1715004 | ARAVINTHKUMAR .G | G. Aravinthkumar |
| 38. | 1715005 | ASWIN .R | R. Aswin |



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| | | | |
|------|---------|------------------------------|-------------------------------|
| 127. | 1615046 | NISHANTH, T. | T. Nishanth |
| 128. | 1615062 | SALMANKHAN.S | Salmankhan |
| 129. | 1615063 | SANJAY KUMAR, S. | Sanjay |
| 130. | 1615065 | SANTHOSH, M. | M. Santhosh |
| 131. | 1615074 | SHANMUGAPRIYA, M. | M. Shanmugapriya |
| 132. | 1615076 | SHIGANDH.A.D | A.D. Shigandh |
| 133. | 1615078 | SRITHIRUMALAIVASAN, K.S. | K.S. Srithirumalaivasan |
| 134. | 1615081 | SURESH KUMAR, M. | M. Suresh |
| 135. | 1615084 | THAMARAI KANNAN, N. | N. Thamarai Kannan |
| 136. | 1615085 | THAMARA KANNAN VENKATACHALAM | Thamarai Kannan Venkatachalam |
| 137. | 1615089 | VIJAYGANESH, K. | K. Vijayganesh |
| 138. | 1615501 | KATHIRVEL.T | T. Kathirvel |
| 139. | 1615502 | LOGESH.K | K. Logesh |
| 140. | 1615504 | MANIKANDAN.S | S. Manikandan |
| 141. | 1615505 | MANIVANNAN, V. | V. Manivannan |
| 142. | 1615506 | POOVARASAN, P | P. Poovarasan |
| 143. | 1615507 | PRASANNA VENKATESH, S. | S. Prasanna Venkatesh |
| 144. | 1615508 | PREETHI, S. | S. Preethi |
| 145. | 1615509 | SABARISH, R. | R. Sabarish |
| 146. | 1615510 | VARSA, V. | V. Varsa |
| 147. | 1615002 | ALEX KUMAR.J | J. Alex Kumar |
| 148. | 1615010 | BHARANI.S | S. Bharani |
| 149. | 1615014 | CELSY.G | G. Celsy |
| 150. | 1615028 | HARIPRABHA.K | K. Hariprabha |
| 151. | 1615031 | KAVIN.M.S | S. Kavim |
| 152. | 1615048 | PAVITHRAA.B.S | S. Pavithraa |
| 153. | 1615049 | PRABHA.E | E. Prabha |
| 154. | 1615051 | PRAVEENA.T | T. Praveena |
| 155. | 1615056 | PRIYANKA.R | R. Priyanka |
| 156. | 1615068 | SARAVANAN.S | S. Saravanan |
| 157. | 1615069 | SATHISHKUMAR.R | R. Sathish Kumar |
| 158. | 1615073 | SHANMUGAM.T,P | T.P. Shanmugam |
| 159. | 1615005 | ARUN KUMAR.B | B. Arun Kumar |
| 160. | 1615008 | ASHWIN.B | B. Ashwin |
| 161. | 1615020 | DINESH KUMAR.T | T. Dinesh Kumar |
| 162. | 1615079 | SUBASH.S | S. Subash |
| 163. | 1615086 | VENKATESH.D | D. Venkatesh |



COORDINATOR
CP-THULAGAVATHI

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TIRUCHENGODE-637 215.

HOD-ECE

Department of Electronics and Communication Engineering

FEEDBACK FORM FOR GUEST LECTURE

Register Number: 1815009

Name of the Student: A. Kaviya

Topic: Recent trends for mobile communication

Name of the Speaker: Mathavan.

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

➤ Please '✓' the option you find most suitable.

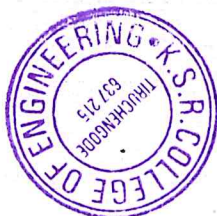
| S.No | Particular | Extremely Good | Good | Quite Good | Poor |
|------|--|----------------|------|------------|------|
| 1. | How was the overall organization of the lecture? | ✓ | | | |
| 2. | How relevant was the content discussed by the speaker? | | ✓ | | |
| 3. | Are you satisfied with the time and venue? | ✓ | | | |
| 4. | How much interesting this session was for you? | | ✓ | | |
| 5. | Did the lecture cover what you were expecting? | | ✓ | | |
| 6. | What is your opinion about the speaker? | | | | |
| 7. | How much this session was useful from the knowledge and information point of view? | | | ✓ | |
| 8. | Overall effectiveness of the lecture. | ✓ | | | |

Additional comments and suggestions for future

It give more information for mobile. It is
very usefull for mobile use and some data

Date: 3-9-19

A.K.



Thank You

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Department of Electronics and Communication Engineering

FEEDBACK FORM FOR GUEST LECTURE

Register Number: 1815006

Name of the Student: G. Swetha

Topic: Present trends on mobile communication

Name of the Speaker: Nathanan

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

➤ Please '✓' the option you find most suitable.

| S.No | Particular | Extremely Good | Good | Quite Good | Poor |
|------|--|----------------|------|------------|------|
| 1. | How was the overall organization of the lecture? | | ✓ | | |
| 2. | How relevant was the content discussed by the speaker? | ✓ | | | |
| 3. | Are you satisfied with the time and venue? | | ✓ | | |
| 4. | How much interesting this session was for you? | ✓ | | | |
| 5. | Did the lecture cover what you were expecting? | | ✓ | | |
| 6. | What is your opinion about the speaker? | ✓ | | ✓ | |
| 7. | How much this session was useful from the knowledge and information point of view? | | ✓ | | |
| 8. | Overall effectiveness of the lecture. | | ✓ | | |

Additional comments and suggestions for future

It's give more information for mobile. It is
very use full for mobile use and same data

Date: 02.09.2019

G. Swetha



Thank You

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Department of Electronics and Communication Engineering

FEEDBACK FORM FOR GUEST LECTURE

Register Number: 1615509

Name of the Student: Subarish R

Topic: Mobile Communication

Name of the Speaker: Madhavan

If you attended the guest lecture we would like to make sure that the sessions were relevant and useful. Give your appropriate feedback to make the future lectures more beneficial for you.

➤ Please '✓' the option you find most suitable.

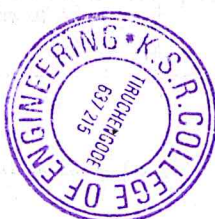
| S.No | Particular | Extremely Good | Good | Quite Good | Poor |
|------|--|----------------|------|------------|------|
| 1. | How was the overall organization of the lecture? | | ✓ | ✓ | |
| 2. | How relevant was the content discussed by the speaker? | | ✓ | | |
| 3. | Are you satisfied with the time and venue? | | ✓ | | |
| 4. | How much interesting this session was for you? | ✓ | | | |
| 5. | Did the lecture cover what you were expecting? | | ✓ | | |
| 6. | What is your opinion about the speaker? | | ✓ | | |
| 7. | How much this session was useful from the knowledge and information point of view? | | ✓ | | |
| 8. | Overall effectiveness of the lecture. | | | ✓ | |

Additional comments and suggestions for future

More additional lecture atleast weekly one.
And need more practical lecture

Date: 03/09/19

Thank You



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Impact Analysis on Guest Lecture

Department of Electronics and Communication Engineering had organized an IETE sponsored Guest Lecture on "Recent Trends in Mobile Communication" on 3rd September 2019 from 9:30 AM to 1:30 PM in MCA Seminar Hall.

The guest lecture began with welcome address by Dr. P.S.Periasamy, Head of the Department, ECE. He introduced and welcomed **Mr.Madhavan,TR, Sub Divisional Engineer,4G Mobile Switching Centre, BSNL-Tamilnadu Circle**, resource person to deliver the lecture. The lecture was attended by 140 students and 5 Faculty members of Electronics and Communication Engineering Department.


The lecture started with "Introduction to Wireless Standards". He stated that different standards of wireless communication have developed across the world, based on various commercially driven requirements. These technologies can roughly be classified into four individual categories, based on their specific application and transmission range as WAN, MAN, LAN and PAN.

In Evolution of Cellular Mobile communication he told that in few past decades , the mobile wireless evolution progressed from Zero Generation (0G) to First Generation (1G), Second Generation (2G), Third Generation (3G), and now Fourth Generation (4G) systems are being deployed with the aim Quality of Service (QoS), efficiency and performance. Mobile wireless technology has reached to 4G or 5G of Technology. 1G technology made large scale mobile wireless communication possible. Digital communication has replaced analog technology in 2G which significantly improved wireless communication. Voice communication was main focus in 3G technology, and converged networks for both voice and data communication was main focus in 3G technology, and converged networks for both voice and data communication is emerging. Currently 5G term is not officially used.

.He stated that Global System for Mobile Communication (GSM) is a second Generation cellular mobile communication standard developed to cater voice and data services using digital communication techniques. He discussed elaborately on GPRS and WCDMA. Various Digital Modulation Techniques were discussed.

Mobile communications are clearly going to show major enhancements in terms of capabilities of mobile networks. The next generation of wireless services, besides improving the overall capacity, will create its own unique demands in terms of localization, personalization, etc., which will in turn, drive the development and continuous evolution of services and infrastructure.




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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Impact Analysis on Guest Lecture

From Participant's Feedback

| S.No | Parameter to be Analyzed | Number of Students | | | |
|------|--|--------------------|------|------------|------|
| | | Extremely Good | Good | Quite Good | Poor |
| 1. | Overall Organization of the Lecture | 98 | 60 | 5 | - |
| 2. | Relevant Information | 69 | 85 | 9 | - |
| 3. | Time and Venue | 68 | 83 | 9 | 3 |
| 4. | Kindling about the Subject Knowledge | 62 | 88 | 10 | 3 |
| 5. | Anticipation of Speech | 69 | 80 | 10 | 4 |
| 6. | Opinion about Speaker | 79 | 74 | 10 | - |
| 7. | Usefulness of the session from the Knowledge and information point of view | 78 | 78 | 7 | - |
| 8. | Overall effectiveness of the Lecture | 72 | 76 | 13 | 2 |

- The Guest Lecture was very informative that the students learnt about fundamentals of Mobile communication and Wireless Technologies. The lecture was even more interesting with the examples he gave relating to each topic. It was wonderful Knowledge sharing and gaining lecture regarding Mobile Communication.

Impacts:

- This Guest lecture helped the students to improve their knowledge on the field of Wireless Communication and the students may have the opportunity to participate in more workshops that have taken place under various topics on Wireless Communication, held at various other colleges.
- The Students may also be insisted to publish many articles on Wireless Communication.
- The Guest Lecture has also motivated the students to do more projects on Wireless Communication.

Impacts on Programme Outcomes:

PO1-Engineering Knowledge:

This Guest Lecture provides basic engineering knowledge on wireless communication.

PO11-Project Management and finance:

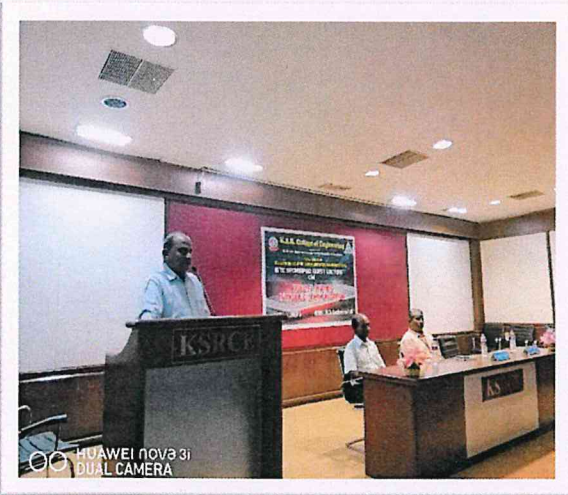
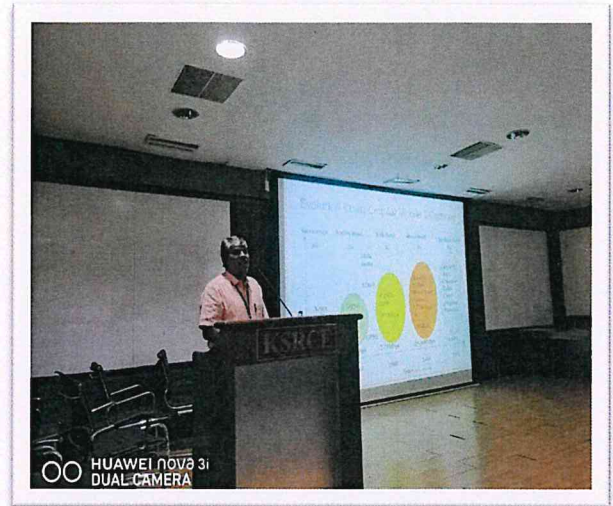
This lecture motivated many of the students to do project on Wireless Communication.

PO12-Life-long Learning:

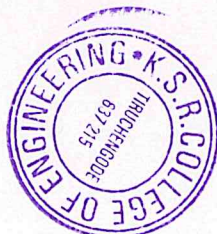
This lecture provides information on mobile communication and hence helps life-long learning.




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