



**SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY ,KARUKUTTY
ACADEMIC YEAR JUNE 2019-MAY 2020**

3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year JUNE 2019-MAY 2020

SI No:	Name of the workshop/ seminar/ conference	Number of Participants	workshop/ seminar/ conference	Page Number	Date From – To	Department	Activity Held
1	Entrepreneurship ideas for Civil Engineers	40	Seminar	1-3	27-08-2019	CE	ENTREPRENEURSHIP
2	Innovative research in concrete technology	40	Seminar	4-6	27-08-2020	CE	RESEARCH SEMINAR
3	Research oriented workshop on bamboo and mud constrection	35	workshop	7-9	05-03-202006-03-2020	CE	RESEARCH SEMINAR
4	Be an entrepreneur in construction management field	61	Seminar	10-12	13-04-2020	CE	ENTREPRENEURSHIP
5	Research ideas on "Emerging Trends in Electric Vehicle technologies" handled by Vijayan nandalan, Former Scientist ISRO	105	Seminar	13-21	03-06-2020	EEE	RESEARCH SEMINAR
6	Talk on " Research methodologies and Article writing techniques"	70	Seminar	22-28	06-02-2020	ECE	RESEARCH SEMINAR
7	Research career in Industry	30	Seminar	29-34	29-01-2020	ECE	RESEARCH SEMINAR
8	A Talk on Methodologies of research and techniques of article writing	37	Seminar	35-41	06-02-2020	ECE	RESEARCH SEMINAR
9	Writing Research Patent Proposals	59	Seminar	42-45	31-03-2020	CSE	IPR
10	Writing Research Article	66	Seminar	46-48	12-04-2020	CSE	IPR

11	Latest research trends on bonded post-tensioned slabs	25	Seminar	49-51	02-05-2020	CE	RESEARCH SEMINAR
12	Latest research on blended cements	55	Seminar	52-54	12-05-2020	CE	RESEARCH SEMINAR
13	Research ideas Advanced Electrical Machines for Electric Vehicle (EV) Applications"- Sreeju S Nair	60	Seminar	55-63	12.5.2020	EEE	RESEARCH SEMINAR
14	Research skills-"Electric grid Overview" handled by Er. Gopakumar Gopinathan Operations Engineer- California ISO USA	45	Seminar	64-74	18.5.2020	EEE	RESEARCH SEMINAR
Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year 2019-2020							14



Joshi
 PRINCIPAL
 SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
 VIDYANAGAR, PALLISSERY, KARUKUTTY
 ERNAKULAM, KERALA-683 576

SCMS School of Engineering and Technology

Department of Civil Engineering

Specification: Seminar

IPR/RM/ENTERPRENEURSHIP: Entrepreneurship

Topic: Entrepreneurship ideas for Civil Engineers

Date: 27th August 2019

During our induction program for freshers opted for Civil Engineering, **Er. M A Joseph** Regional Technical Head of Ultra tech cements conducted an informative class on Passion for civil engineering and various updates in the construction field. He started class by raising the energy level in seminar hall.

He talked about various new technologies and methods used for construction in the today's world. He helped us to understand the various ingredients used in manufacturing cements and their functions. He talked about various techniques used in tile construction and their components and composition that has to be used for the purpose to get the desired results.

The class came to an end by noon. It was a well informative and useful class for each student of our batch. For someone who came with great ambitions in civil engineering the class was a great boost from a visionary like **Mr M A Joseph**. Looking forward to have more classes to keep us updated.



DEPARTMENT OF CIVIL ENGINEERING

SSET SCMS School of
Engineering & Technology

Campus: Vidya Nagar, Karukutty, Ernakulam-683576, Tel: 91 484 2882900 / 901



Er.M A Joseph

Regional Head
Technical Services
Ultratech Cements

Entrepreneurship ideas for Civil Engineers

At Conference Hall, Admin Block

Co-ordinator
Ms. Nandita Mohan

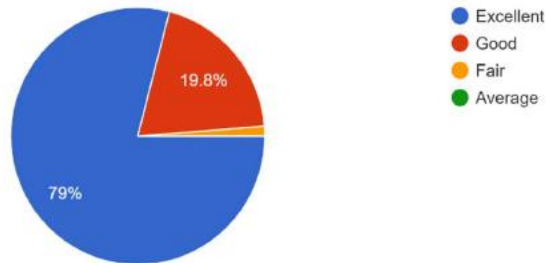
**27 August
2019**



Seminars by M A Joseph (27-08-2019)

FEEDBACK FROM PARTICIPANTS

How useful did you find the session?



Prepared by,

Ms. Nandita Mohan

Co-ordinator

Verified by,

Dr. Anitha G Pillai

HOD, CE

SCMS School of Engineering and Technology

Department of Civil Engineering

Specification: Seminar

IPR/RM/ENTERPRENEURSHIP: RM

Seminar Topic: Innovative research in concrete technology

Date: 27th August 2019

Er. M.A Joseph enlightened us about the interesting and basic topics which we as civil engineers should be aware of. He walked us through different topics like properties and characteristics of cement, strength of concrete, setting time, manufacturing process and about the curing process of concrete.

As an introduction he asked us about the engineering behind pressure cooker and the latest technologies in breaking system of cars. The class started off by introducing us to the different types of cement like Ordinary Portland Cement(OPC), Portland Pozzolana Cement(PPC), Portland Slag Cement (PSC), colour cement, quick setting cement etc. the mainly available cements in market are OPC, PPC and PSC. He showed us the reports that we may use as civil engineers.

Then he discussed about the strength of concrete and that it can be tested by compression test and it continued onto the topic of initial setting time and final setting time of concrete. the initial setting time of presently available concretes are one to one and half hours. the cement paste made should not be kept for long time, it should be finished using in one and half hours. the final setting time is eight to nine hours. The curing process of any concrete component should be done for 28 days. The 30%-40% strength is obtained in the 1st day, 50%-60% strength in 3 days, 70%-80% strength in 7 days and 95%-100% strength in 28th day. The most careful period of any concrete components is the 1st 10 days.

At the end of session, the participants had an interaction with the resource person. The seminar enlightened the attendees in understanding the importance of new research ideas in the area of concrete technology.



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Er.M A Joseph

Regional Head
Technical Services
Ultratech Cements

Innovative research in concrete technology

At Conference Hall, Admin Block

27 August
2019

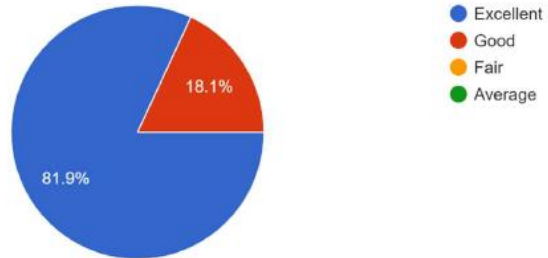
Co-ordinator
Ms. Nandita Mohan



Seminars by M A Joseph (27-08-2019)

FEEDBACK FROM PARTICIPANTS

How useful did you find the session?



Prepared by,

Ms. Nandita Mohan

Co-ordinator

Verified by,

Dr. Anitha G Pillai

HOD, CE

SCMS School of Engineering and Technology
Department of Civil Engineering

Specification: Workshop

IPR/RM/ENTERPRENEURSHIP: RM

Hands-on Research Oriented Workshop on Mud and Bamboo Construction

Date: 5th and 6th March, 2020

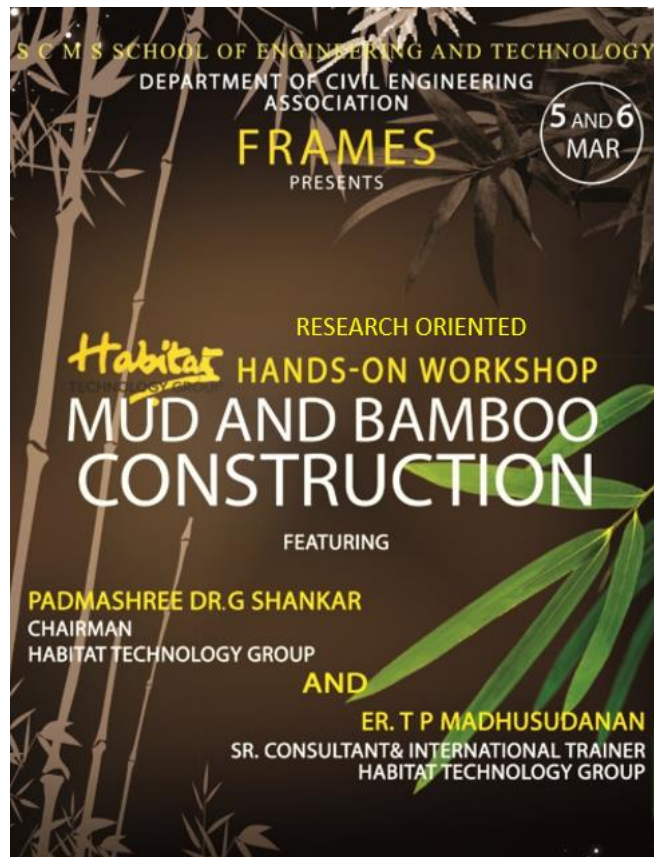
Venue: Conference Hall, Administrative Block

A two day hands-on workshop on 'Mud and Bamboo Construction' was held on the March 5,6 at SCMS School of Engineering and Technology. It was conducted by Habitat Technology Group and was organized by the Civil Engineering Association and IGBC chapter of SCMS School of Engineering & Technology.

The workshop was inaugurated by **Padma Shri Dr. G Shankar**, the founder chairman of Habitat Technology Group. Dr. Shankar gave a seminar session on good construction practices using mud and bamboo. According to him, "the texture, the colour and the feel of mud as a building material makes me, as an architect, feel thrilled and excited to build. Working with mud gives you a connection with mother Earth and it's high time each one of you change your perception that mud is a poor man's material".

Er. T P Madhusudanan (Senior Consultant and International Trainer, Habitat Technology Group) lead the workshop session for students. They were given a chance to explore and experiment with sustainable methods of construction. With proper guidance and teamwork, students were able to construct cob walls, mud-bamboo walls, adobe bricks etc. While speaking about the recent floods and disasters, both Dr. G Shankar and T P Madhusudanan instilled in the students, the truth that disasters are not caused by nature; but by structures.

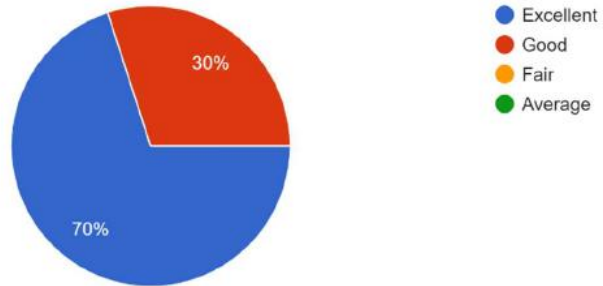
The workshop witnessed an enthusiastic participation of almost 40 students. The sessions were very interesting and informative for the them. The Industry-Institute interaction provided them an opportunity to understand the importance of sustainable methods of construction.



Glimpses of Research Oriented workshop on Bamboo and Mud Construction

FEEDBACK FROM PARTICIPANTS

How useful did you find the session?



Prepared by,

Ms. Sanju Sreedharan

Co-ordinator

Verified by,

Dr. Anitha G Pillai

HOD, CE

SCMS School of Engineering and Technology

Department of Civil Engineering

Specification: Seminar

IPR/RM/ENTERPRENEURSHIP: Entrepreneurship

Seminar Topic: Be an entrepreneur in construction management field

Date: 13th April, 2020

An online session on web/mobile based integrated solution for construction management by **Er. Reji Zacharia**, S & R consultant was held on 13th April, 2020. The session was held in Zoom for the faculty members from the Civil Engineering Department.

The session provided an overview of the topic Aadspro (Analysis, autoscan design, detailing, scheduling and sequencing program) which is a new generation design package which can be used for a number of applications in Civil Engineering. Aadspro is integrated with commonly used programs like Etabs/STAAD.Pro and AutoCAD and has different modules including beam, slab, column, footing detailing etc. Estimax software was also introduced which is swift in performing quantity estimation as well as is capable of performing rate analysis.

AadsproERP which is a leading ERP platform for the construction sector which helps builders, contractors, and consultants to manage their daily activities and control them in a better way was also introduced. . The Aadspro ERP helps them to monitor the daily activities in their organizations. A six dimensional approach connects engineering, time, cost and information through all platforms.

Different modules in AadsproERP include: Design & detailing (direct from CAD), Estimation (direct from CAD to Estimax), Planning, Accounting, Inventory management, Quality control, Optimization, Customer relation management, Communication modules, HR management and Document management. At the end of the talk, an interactive section was also conducted, wherein faculties were given the chance to ask him questions and the session came to an end. Actually the talk was really an informative one for all the faculty members as it pointed out the

importance of this software as well as its numerous advantages like how well its capable of helping the construction industries to manage their daily activities in a better and efficient way.



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SSET SCMS School of
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Er. Reji Zacharia
S & R consultant

**Be an
entrepreneur in
construction
management field**

13 April
2020



On Zoom meeting

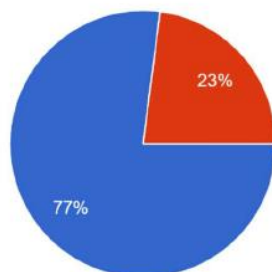
Co-ordinator
Ms. Aswini J



FEEDBACK FROM PARTICIPANTS

How useful did you find the session?

61 responses



- Excellent
- Good
- Fair
- Average



Seminar by Er. Reji Zacharia

Prepared by,

Ms. Aswini J

Co-ordinator

Verified by,

Dr. Anitha G Pillai

HOD, CE

Department of Electrical and Electronics Engineering



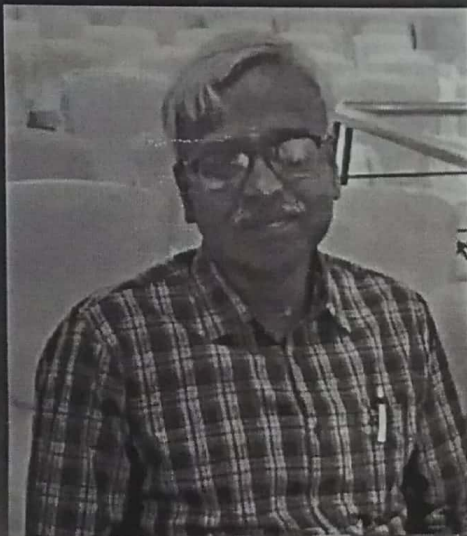
SCMS School Of Engineering and Technology

Vidya Nagar, Palissery, Karukutty,
Emakulam-683576, Kerala

Research skills

ONLINE TALK

"Glimpses of India's space
missions"



Dr. Murugesan V
Group Director,
Quality Assurance and Reliability
Mechanical Integration Group,
Vikram Sarabhai Space Centre
Thiruvananthapuram.

30:05:2020

11:00 AM

ACE

Break
the
chain

Department of Electrical and Electronics Engineering



SCMS School Of Engineering and Technology

*Vidya Nagar, Palissery, Karukutty,
Ernakulam-683576, Kerala*

Research Skills

ONLINE TALK

"Glimpses of India's space
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Dr. Murugesan V

Group Director,

Quality Assurance and Reliability -
Mechanical Integration Group,
Vikram Sarabhai Space Centre
Thiruvananthapuram.

30:05:2020

11:00 AM



SCMS School of Engineering and Technology
Department of Electrical & electronics Engineering

REPORT ON GLIMSES OF INDIAN'S SPACE MISSION

Date: 30 May, 2020

A webinar was organized by the Department of Electrical and Electronics Engineering, SSET on the topic "Glimses of Indian's Space Mission". This session was handled by Dr. Murukeshan, Group Director, Quality Assurance and reliability, Mechanical Integration Group, VSSC, Thiruvananthapuram on 30th May 2020. The online session began at 11am and was held through Google Meet attended by around 50 participants.

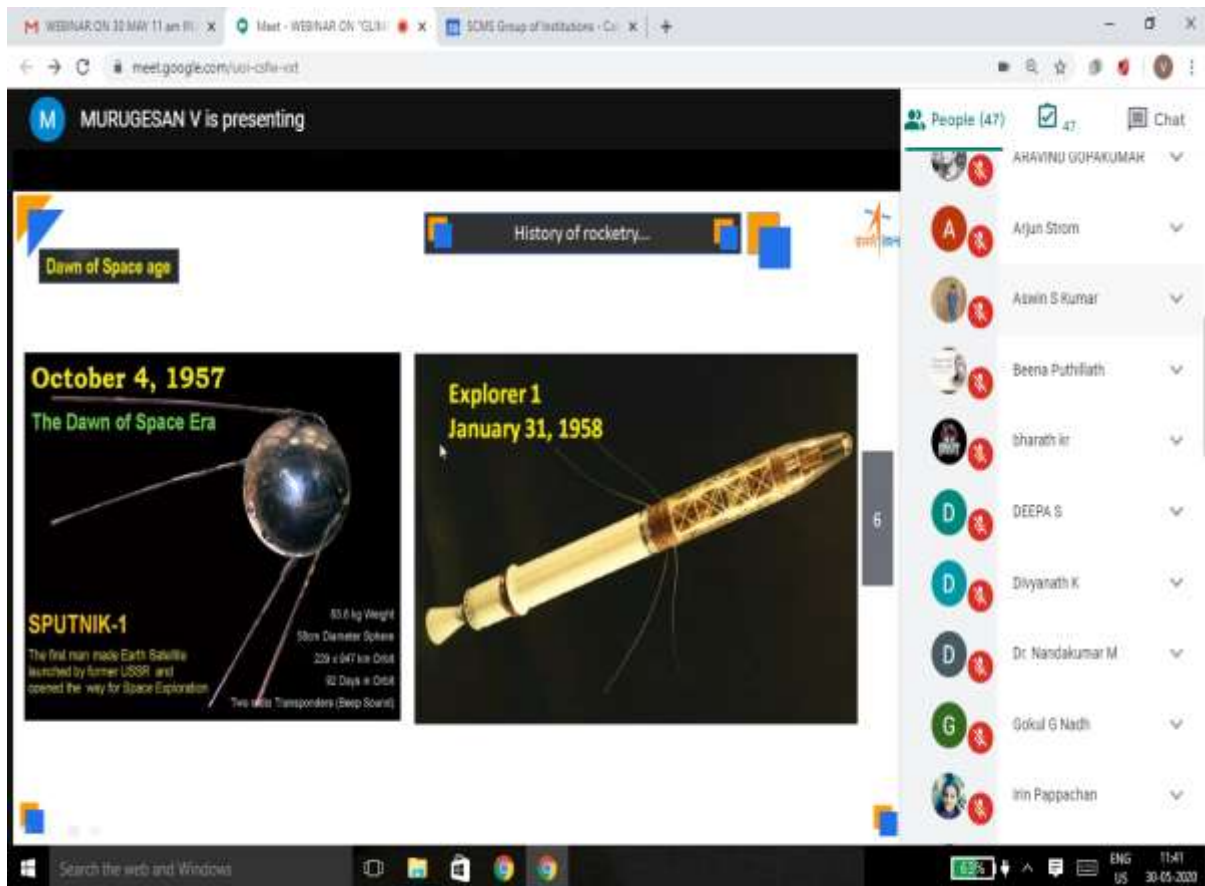
The contents of webinar was history of rocketry, Indian space program, Launch vehicle system, assembly, stages, special mission like Chandrayaan I, MOM, SRE, RLV, Chandrayaan II; applications and ISRO academic careers. Dr. Murukeshan began the session by history of rocketry. He explained about contributions of Copernicus, Kepler, Galileo and Newton. More over he focused on contributions of Tsiolkovsky (Father of Modern rocketry), Hermann Oberth, Robert Goddard and Werner Ven Braun. The various missile launch vehicles like delta, Titan, Atlas and Saturn V was explained. He also explained about Sputnik I which was dawn of space age. He also gave an overview of beginning of VSSC.

Thumba was selected as VSSC in Thiruvananthapuram because earth's magnetic equator is passing through it. In 1962 St. Mary's Magadellane Church served as office and laboratory which was now converted to Space Museum. The first sounding Rocket Nike Apache was launched from Thumba on 21st November 1963. The first Indian Rocket Rohini 75 was launched from thumba on 20th November 1967. He also explained about features stages, length, weight, altitude and applications of various rockets. Dr. APJ Abdul Kalam was the true inspiration for VSSC for launching vehicle when he served there. SLV 3 was launched in August 79, July 80, May 81 and April 83 while ASLV was launched in March 87, July 88, May 92 and May 94. He also gave an overview of various ISRO centers in India, its programmes and R&D endeavors. He explained

about propellants, chemical, Integration & testing, control & guidance, structure, system reliability, aerodynamics etc.

The design of space launch was narrated with equations, concept and videos. The types of rocket propulsion are solid, liquid, semi cryo and cryo. The details of vehicles namely SLV3, ASLV, PSLV-XL, GSLV-MK II, GSLV-MK III was explained in terms of height, weight, propulsion, mass and orbit. The features of avionics, materials used, preparation of launching vehicles was also explained with videos. The accomplishment of VSSC is 180 mission in total. It finds applications in telecommunication, broad casting, meteorology, telemedicine, coastal zone management, disaster management, agriculture etc. The future of space transportation in India is very bright with possibilities for improvement in all scientific and engineering disciplines. VSSC has technical training centre and Engineering College to mould young engineering aspirants to serve for nation.

Glimpses of the webinar:



MEET - WEBINAR ON 30 MAY 11:13 AM

meet.google.com/ksj-cfhw-vyt

MURUGESAN is presenting

Sachin S Nair and 37 more

11:13 AM

CONTENT OF PRESENTATION

- History of rocketry, Indian space program
- Launch Vehicles, systems and assembly
- Stages
- Special missions
 - Chandrayaan-1
 - MOH
 - SRE
 - RLV
 - Chandrayaan-2
- Applications
- Summary
- ISRO – Academics and Careers

Dr. Nandakumar M

arwin Francia

11:13 30-05-2020

MEET - WEBINAR ON 30 MAY 11:46 AM

meet.google.com/ksj-cfhw-vyt

MURUGESAN V is presenting

Jayalakshmi S and 42 more

11:46 AM

Lead Center for Space Transportation System

VIKRAM SARABHAI SPACE CENTRE

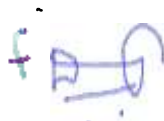
R&D Endeavors

Programme

- SSLV
- PSLV
- GBLV
- GSLV Mk III
- ABPP
- ATV
- RLV

WEBINAR ON "GLIMPSES OF INDIA'S SPAC...

11:46 30-05-2020



Dr. Nandakumar
HoD (EE)

REGISTRATION

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Joel Thomas	7591923799	S4	joelthomas99@gmail.com	5/29/2020, 8:46:08 AM
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SCMS School of Engineering And Technology, Karukutty
Department of Electrical & Electronics Engineering

FEEDBACK RESPONSE

Question		The resource person was knowledgeable ,organized and Effective in his presentation.	The resource person provide information useful for my career development
	The program was well organized and structured		
	Good	Ok	Good
	Good	Ok	Ok
	Good	Poor	Good
	Good	Good	Good
	Good	Good	Good
	Good	Good	Good
	Good	Good	Good
	Good	Good	Good
	Good	Good	Ok
	Good	Good	Ok
	Good	Good	Ok
	Good	Ok	Ok
	Good	Good	Good
	Good	Good	Good
	Good	Ok	Ok
	Good	Good	Good
	Good	Good	Good
	Good	Ok	Ok
	Good	Good	Good



Dr. DIVYA NATH K

PROGRAMME
**TALK ON RESEARCH METHODOLOGY
AND ARTICLE WRITING TECHNIQUES**

WEDNESDAY
06 FEBRUARY 2020

TIME
10.00 AM

**VENUE: ACADEMIC BLOCK 1
COMPUTER LAB 1**



MR. VINOJ P G
ASSISTANT PROFESSOR

DEPT. OF ELECTRONICS AND COMMUNICATION
ENGINEERING



CE, CS & ME



SCMS

**School of
Engineering & Technology**

Campus: Vidya Nagar, Karukutty, Ernakulam- 683576 Tel: 91-484-
2450330, 70347 80073, 70347 80072

SCMS School of Engineering and Technology
Department of Electronics and Communication Engineering
A Report on the talk on “Research Methodology and Article Writing Techniques”

Objective of the talk:

Research methodology refers to the process or system that researchers use to conduct a study or research project. It encompasses the methods, techniques, and procedures that researchers use to gather and analyze data, as well as the principles and assumptions that underlie their work. There are many different research methodologies, each with its strengths and weaknesses. The choice of methodology depends on the nature of the research problem, the research questions, and the availability of resources. Common research methodologies include quantitative research, which uses numerical data and statistical analysis, and qualitative research, which uses non-numerical data such as interviews, observations, and case studies. Other methodologies include mixed-methods research, action research, and experimental research.

In this context the department of Electronics and Communication Engineering organized a talk on “Research Methodology and Article Writing Techniques” on 6th February 2019 at 10 AM IST at the Academic block 1 Computer Lab 1. The program was organized and coordinated by Ms. V. Anandhi. The program was organized for S8 students. Around 50 Students have attended the awareness talk. Mr. Vinoj P G, Assistant Professor, Department of Electronics and communication Engineering, SSET, Karukutty, Thrissur was the resource person.

The objective of the awareness talk was to ensure that the research studies are conducted in a systematic and rigorous way, producing valid and reliable results that can inform theory and practice. Mr. Vinoj P G also explained about the various structural steps involved in the article writing procedure. Further, elaborations were provided by him regarding the reference styles. Finally, he concluded the awareness talk by thanking the Management, principal and HOD for offering him the opportunity for sharing his knowledge and expertise with the students.

Photograph of the program:



Vinoj addressing students of s6 how to write a journal paper

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
VIDYA NAGAR, PALISSERY, KARUKUTTY, ERNAKULAM - 683 576
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ATTENDANCE SHEET

DATE:

Sl. No.	Name	Signature
1	Aishwarya	Aishwarya
2	Chinju	Chinju
3	Athul	Athul
4	ATAYA	Ataya
5	GESWIN	Geswin
6	TIFFIN	Tiffin
7	Jayashyarn	Jayashyarn
8	Abhilash	Abhilash
9	Anoaja	Anoaja
10	Ajmal	Ajmal
11	ARTJUN	Artjun
12	chithanya	Chithanya
13	Annoose	Annoose
14	Deepa	Deepa
15	Adilthyan	Adilthyan
16	AKHIL	Akhil
17	Akshay	Akshay
18	Anoija	Anoija
19	Ana	Ana
20	Aneena	Aneena
21	fatima kb	Fatima kb
22	Groutham	Groutham
23	Devi Krishna	Devi Krishna
24	Christine	Christine
25	Joyal	Joyal
26	Pranav	Pranav
27	Richard	Richard
28	Merin	Merin
29	Ksishna	Ksishna
30	Preethi	Preethi

SCMS School of Engineering and Technology
Department of Electronics and Communication Engineering

Feedback Form

Please complete this form conscientiously and in a spirit of helping the speaker to improve their presentation abilities.

	Poor	OK	Good
What was your overall impression of this talk?			✓
Were the overheads clear and legible?			✓
Was the information on the overheads useful and informative?		✓	
Was their voice clear?			✓
Was the subject of the talk made clear at the beginning?			✓
Did the speaker engage the audience ?			✓
How was the speakers attitude (They should appear relaxed but enthusiastic)?			✓
Summary?		✓	

Any other helpful comments?

SCMS School of Engineering and Technology
Department of Electronics and Communication Engineering

Feedback Form

Please complete this form conscientiously and in a spirit of helping the speaker to improve their presentation abilities.

	Poor	OK	Good
What was your overall impression of this talk?		✓	
Were the overheads clear and legible?			✓
Was the information on the overheads useful and informative?		✓	
Was their voice clear?			✓
Was the subject of the talk made clear at the beginning?		✓	
Did the speaker engage the audience ?			✓
How was the speakers attitude (They should appear relaxed but enthusiastic)?		✓	
Summary?			✓

Any other helpful comments?

Expert Talk

Research Career in Industry



29th January
2020



Time
2:15 PM



Venue

Seminar Hall, Academic Block - 1



Resource Person

Ms. Meera S

Project and Product Manager

Globalwave Technologies (P) Ltd

Faculty Coordinator

SREEJA K S

ECE Department



SSET SCMS SCHOOL OF
ENGINEERING AND TECHNOLOGY

Campus: Vidya Nagar, Karukutty, Ernakulam - 683576 Kerala

Website: www.scmsgroup.org/sset Tel: 0484 2882900/0484 2450330

— Accredited by —



SCMS School of Engineering and Technology
Department of Electronics and Communication Engineering
A Report on the talk on “Research career in Industry”

Objective of the talk:

As part of impetus towards research and a career in research, Department of Electronics and Communication, SSET organised an expert talk on ‘Career experience in Antenna Development’ for faculties and students. The resource person Ms Meera S, is Product and Project Manager at GlobalWave Technologies (P) Ltd, Cochin. The session was conducted on 21/04/2021 at Academic Block-1 Seminar Hall, SSET. Dr Saira Joseph, HOD, ECE, welcomed the guest and the gathering.

For students interested in pursuing a research career in industry, there are a variety of opportunities available across different sectors. Companies in industries such as Antenna Design, semiconductor Technologies, and Electronic Communication research all hire researchers for a range of roles.

The talk was helpful to identify the specific industry that interests students, research the companies in that industry, and learn about their research programs and hiring practices. Job titles discussed included Research Scientist, Research Associate, or Research Analyst.

Students found the session interactive and very informative. As a token of gratitude, the speaker was awarded a memento by Dr Saira Joseph, HOD of Electronics and Communication department.

Ms. SREEJA K A

FACULTY COORDINATOR

Photograph of the program:



Motivational talk by Meera Maam to budding engineers how to create a disciplined life and clears the doubt of students regarding entrepreneurship

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
VIDYA NAGAR, PALISSERY, KARUKUTTY, ERNAKULAM - 683 576
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ATTENDANCE SHEET

DATE:

Sl. No.	Name	Signature
	Ama	
	Sarath	
	Krishna	Krishna P
	Vishnu Priya	
	Supith	
	Arjuna	Arjuna D.
	Navya	
	Gokul	
	Sona	
	Ashish	Ashish
	Amogh	
	Debu	
	Greehika	Greehika
	Janel	
	Thejus	Thejus
	Honey	Honey
	Dilu	Dilu
	Abhaya	Abhaya
	Anjali	
	Lakshmi	
	Ron	
	anusree	Anusree
	Abhinav	Abhinav
	Kithu	
	Savio	Savio
	Vishnu	Vishnu
	Kavya	
	Jeslin	Jeslin
	Aneesha	Aneesha

HOD
ANANDHI V

Anandhi V

SCMS School of Engineering and Technology
Department of Electronics and Communication Engineering

Feedback Form

Please complete this form conscientiously and in a spirit of helping the speaker to improve their presentation abilities.

	Poor	OK	Good
What was your overall impression of this talk?			✓
Were the overheads clear and legible?			✓
Was the information on the overheads useful and informative?			✓
Was their voice clear?			✓
Was the subject of the talk made clear at the beginning?			✓
Did the speaker engage the audience ?			✓
How was the speakers attitude (They should appear relaxed but enthusiastic)?			✓
Summary?			✓

Any other helpful comments?

SCMS School of Engineering and Technology
Department of Electronics and Communication Engineering

Feedback Form

Please complete this form conscientiously and in a spirit of helping the speaker to improve their presentation abilities.

	Poor	OK	Good
What was your overall impression of this talk?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the overheads clear and legible?			<input checked="" type="checkbox"/>
Was the information on the overheads useful and informative?			<input checked="" type="checkbox"/>
Was their voice clear?			<input checked="" type="checkbox"/>
Was the subject of the talk made clear at the beginning?			<input checked="" type="checkbox"/>
Did the speaker engage the audience ?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
How was the speakers attitude (They should appear relaxed but enthusiastic)?			<input checked="" type="checkbox"/>
Summary?		<input checked="" type="checkbox"/>	

Any other helpful comments?

PROGRAMME

TALK ON METHODOLOGY OF RESEARCH AND TECHNIQUES OF ARTICLE WRITING

MONDAY
20 JANUARY 2020

TIME
02.00 PM

VENUE: SEMINAR HALL AC1



DR. SUNIL JACOB

PROFESSOR

DEPT. OF ELECTRONICS AND COMMUNICATION
ENGINEERING



SCMS School of
Engineering & Technology

Campus: Vidya Nagar, Karukutty, Ernakulam- 683576
Tel: 91-484-2450330, 70347 80073, 70347 80072

SCMS School of Engineering and Technology

Department of Electronics and Communication Engineering

A Report on talk on Methodologies of Research and techniques of article writing

Objective of the talk:

Writing a Scientific article gives you a head start to future scholarly works. The student not only learns the process of research that is selecting a topic, reviewing the literature, collecting data and evaluation of data but it also helps you understand how to find answer of a question scientifically. Studies reveal that research helps restore and protect memory and enhances mathematic and problem-solving skills. Therefore, it prepares the mind for a better understanding of concepts and theories. A person's learning capacity is improved and they can perform better in comparison who is reluctant to research.

In this context the department of Electronics and Communication Engineering organized a talk on “Methodologies of Research and techniques of article writing” on January 20 2020 at 02 PM IST at the academic block 1 Seminar hall. The program was organized and coordinated by Mr. Vinoj P. G. The program was specifically organized for S8 EC students. Around 70 Students have attended the awareness talk. Dr Sunil Jacob, Professor, Department of Electronics and communication Engineering and Director, SCMS Centre for Robotics, SSET was the resource person. He has published nearly 60 research articles and have 8 years of research experience, hence his knowledge in writing research article will have great impact among final year students.

This awareness talk started with sharing the knowledge about research methodologies and then followed by sharing us about the different types of research articles that are available in academic research. Dr Sunil Jacob also explained about how a research article should be structured and hinted how a research article should be written in a pleasing and acceptable manner. Then he also provided insights about various reference styles and shared his knowledge in reference manager software's such as Mendely Desktop and Zotero. Finally, he ended the talk thanking the Management, principal and HOD for giving him this opportunity to share his expertise with the students.

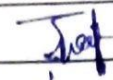







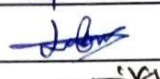
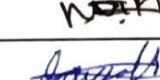
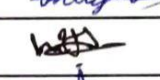
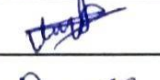




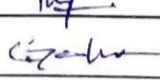
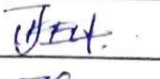


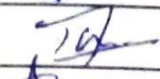
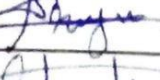



Photograph of the program:



glimpses of Dr.Sunil Sir sharing his idea
and knowledge about research

SCMS SCHOOL OF ENGINEERING & TECHNOLOGY
VIDYA NAGAR, PALISSERY, KARUKUTTY, ERNAKULAM - 683 576
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ATTENDANCE SHEET

DATE:

Sl. No.	Name	Signature
	Joffin	
	Vignesh	
	Vismaya	
	Sivarajagan	
	Prajith	
	Jithin	
	Meera	
	Reshma	
	Preethi	
	Musaly Krishnan	
	Mesin	
	Labin	
	Nikitha	
	Sangeetha	
	Nitin	
	Vivek	
	Birza	
	Meera	
	AISWARYA	
	Chinju	
	Athul	
	Ajay	
	GRESWIN	
	Jagan	
	Jayashyam	
	Abilash	
	Anooja	
	Ajmal	
	Arjun	
	chithanya	

SCMS School of Engineering and Technology
Department of Electronics and Communication Engineering

Feedback Form

Please complete this form conscientiously and in a spirit of helping the speaker to improve their presentation abilities.

	Poor	OK	Good
What was your overall impression of this talk?		✓	
Were the overheads clear and legible?			✓
Was the information on the overheads useful and informative?			✓
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Was the subject of the talk made clear at the beginning?		✓	
Did the speaker engage the audience ?			✓
How was the speakers attitude (They should appear relaxed but enthusiastic)?			✓
Summary?		✓	

Any other helpful comments?

SCMS School of Engineering and Technology
Department of Electronics and Communication Engineering

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Was their voice clear?			✓
Was the subject of the talk made clear at the beginning?		✓	
Did the speaker engage the audience ?			✓
How was the speakers attitude (They should appear relaxed but enthusiastic)?		✓	
Summary?		✓	

Any other helpful comments?

Report

Title: Writing Research Patent Proposals

Date: 31-03-2020

Time: 9:30 AM

Summary:

A talk on Writing Research Patent Proposals done for students provided insight into the different stages of patent proposal and financial assistance provided by agency

Poster

The poster features a dark blue background with a yellow diagonal stripe on the right side. At the top left, there is a grid of yellow dots. The text is arranged as follows:

- PROGRAMME** (in yellow)
- TALK ON** (in white)
- WRITING RESEARCH PATENT PROPOSALS** (in white)
- A circular portrait of **DR. VARUN G MENON**, a man with dark hair wearing a pink shirt and a lanyard.
- MONDAY** (in yellow) | **TIME** (in white)
- 31-03-2020 | 9.30 AM
- VENUE: LAB 2** (in yellow)
- DR. VARUN G MENON** (in yellow)
- PROFESSOR (in white)
- DEPT. OF COMPUTER SCIENCE AND ENGINEERING (in white)

At the bottom, there are three logos: RAAC (Regional Accreditation Council), NBA (National Board of Accreditation) for CE, CS & ME, and SCMS (School of Computer Science and Mathematics) featuring a gear and a book. To the right of these logos is the text:

SCMS School of Engineering & Technology
Campus: Vidya Nagar, Karukutty, Ernakulam- 683576
Tel: 91-484-2450330, 70347 80073, 70347 80072

Photos



Dr.Varun sir clearing doubts on how to submit research proposals in competition

Attendance

Department of Computer Science and Engineering

Talk on Writing Research Patent Proposal

Venue: Lab A

Time 9.30 am to 12.30 pm

Date: 31.3.2020

ATTENDANCE SHEET -S8 CS1

Sl No	Admission No	Name of the Student	Signature
1	SCS/8480/19	ABAY RAJU M	
2	SCS/8610/19	ABHIRAMI A	
3	SCS/8472/19	ABHISHEK K	
4	SCS/8674/19	ABIN SIBY	
5	SCS/8743/19	ADIL ABDUL KADAR	
6	SCS/8718/19	ADITHYA KRISHNAN	
7	SCS/8532/19	ADITYA MUKUNDAN	
8	SCS/8628/19	AFTHAB K NAUFAL	
9	SCS/8720/19	AJAY SADHASIVAN K	
10	SCS/8706/19	AJAYSURYAN P A	
11	SCS/8667/19	AKHILA	
12	SCS/8504/19	AKHILA AJITH	
13	SCS/8636/19	AKHILDAS H	
14	SCS/8681/19	AKHINASH PRASAD	
15	SCS/8657/19	AKSHARA A S	
16	SCS/8686/19	AKSHAY A	
17	SCS/8647/19	ALEN ROY	
18	SCS/8700/19	ALLEN LAWRENCE	
19	SCS/8499/19	AMALNA K HARISH	
20	SCS/8510/19	AMAL RAJESH	
21	SCS/8663/19	ANANTHAKRISHNAN V R	
22	SCS/8699/19	ANEENA K S	
23	SCS/8474/19	ANILA C S	
24	SCS/8585/19	ANJANA SANJAY	
25	SCS/8698/19	ANNMARY JACOB	
26	SCS/8687/19	ANOOP FRANCIS	
27	SCS/8613/19	ANTONY K SHAJI	
28	SCS/8672/19	ANTRIN SANTHOSH	
29	SCS/8707/19	ANURENJ K P	
30	SCS/8705/19	AQIL ANWAR	
31	SCS/8683/19	ARYA ANIL KUMAR	
32	SCS/8489/19	ASWINKUMAR T S	
33	SCS/8653/19	ASWIN N	
34	SCS/8658/19	ASWIN SANIL BHASKAR	
35	SCS/8644/19	ASWIN SURESH P	
36	SCS/8626/19	ATHUL V NAIR	
37	SCS/8484/19	AVILA JAMES	
38	SCS/8578/19	BEN REJI	
39	SCS/8701/19	BHAVYA P S	
40	SCS/8533/19	BISHITHA K P	









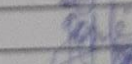

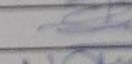

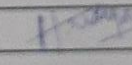
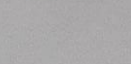





Department of Computer Science and Engineering

Talk on Writing Research Patent Proposal

Venue: Lab 2

Time 9.30 am to 12.30 pm

ATTENDANCE SHEET -S8 CSI

Sl No	Admission No	Name of the Student	Signature
41	SCS/8747/19	CHANDINI P S	
42	SCS/8728/19	DELVIN AUGUSTINE	
43	SCS/8519/19	DELVIN M SHINOY	
44	SCS/8668/19	EDWIN BENNY	
45	SCS/8611/19	EMIL JAISON THOMAS	
46	SCS/8689/19	FEBIN ALEX	
47	SCS/8498/19	FITHA NAZAR	
48	SCS/8659/19	GAUTHAM KRISHNA S	
49	SCS/8673/19	GEORGE ANIL	
50	SCS/8703/19	GEORGE OOMMEN VARGHESE	
51	SCS/8664/19	GESMI P RAJAN	
52	SCS/8639/19	GOKUL KRISHNAN V G	
53	SCS/8503/19	GOPIKA DINESAN UTTAMANTIL	
54	SCS/8736/19	GOPIKA JAIDEEP	
55	SCS/8733/19	GOPIKA SASI KUMAR	
56	SCS/8646/19	GOUTHAM GOPI S PILLAI	
57	SCS/8713/19	HADIYA	
58	SCS/8694/19	HANCE STEVE	
59	SCS/8492/19	HRIDYA S	



Mrs. Neenu Sebastian
Event Coordinator



Dr. Varun G Menon
HOD-CSE

Report

Title: Writing Research Article

Date: 12-04-2020

Time: 9:30 AM

Summary:

A talk on Writing Research Article for journal publication and review papers in conference proceedings.

Poster

The poster features a dark blue background with a yellow diagonal stripe on the right side. At the top left, there is a grid of yellow dots. The word 'PROGRAMME' is written in yellow, and the title 'TALK ON WRITING RESEARCH ARTICLE' is in white. A circular portrait of Dr. Varun G Menon is centered. To the left of the portrait, the date and time are listed. At the bottom, there are accreditation logos and the school's name and contact information.

PROGRAMME

**TALK ON
WRITING RESEARCH ARTICLE**

MONDAY
12-04-2020

TIME
9.30 AM

VENUE: LAB 5

DR. VARUN G MENON
PROFESSOR
DEPT. OF COMPUTER SCIENCE AND
ENGINEERING

SCMS School of
Engineering & Technology
Campus: Vidya Nagar, Karukutty, Ernakulam- 683576
Tel: 91-484-2450330, 70347 80073, 70347 80072

Attendance

Sl.No	Roll No	Regi. No	Student Name	Signature
1	1	SCM21CS001	ABHAY NAIR	
2	2	SCM21CS002	ABHINAV VINODAN	
3	3	SCM21CS003	ABHISHEK DINESH	
4	4	SCM21CS004	ABHISHEK JOSE	
5	5	SCM21CS005	ABINAV E V	
6	6	SCM21CS006	ADARSH M R	
7	7	SCM21CS007	ADARSH P	
8	8	SCM21CS008	AHAMED OMAR	
9	9	SCM21CS009	AHAMMED MALIK P S	
10	10	SCM21CS010	AINA ARUN	
11	11	SCM21CS011	AKASH T S	
12	12	SCM21CS012	AKHIL A	
13	13	SCM21CS013	AKSA AGI	
14	14	SCM21CS014	AKSHAY ANIL	
15	15	SCM21CS016	ALBIN KALLICHETHU SAMUEL	
16	16	SCM21CS017	ALEENA JOHNSON	
17	17	SCM21CS018	ALEENA MARTIN	
18	18	SCM21CS019	ALKA PRAVEEN	
19	19	SCM21CS020	AMAL KRISHNA K B	
20	20	SCM21CS021	AMAY KRISHNA V S	
21	21	SCM21CS022	AMIYA SHEREEF	
22	22	SCM21CS023	ANAGHA PRASAD T P	
23	23	SCM21CS024	ANAL AJITH K	
24	24	SCM21CS025	ANAMIKA P DINVI	
25	25	SCM21CS026	ANANDJITH T J	
26	26	SCM21CS027	ANIRUDH V KUMAR	
27	27	SCM21CS028	ANTONY J THAZHATHA	
28	28	SCM21CS029	ANUBHAV K V	
29	29	SCM21CS030	ANUPRIYA P	
30	30	SCM21CS031	ARATHI PRASAD	
31	31	SCM21CS032	ARJUN A P	
32	32	SCM21CS033	A R PARVATHY	
33	33	SCM21CS034	ARUNJITH BABU	
34	34	SCM21CS035	ARYANANDHA K P	
35	35	SCM21CS036	ASHWIN SHIBU	
36	36	SCM21CS037	ATHUL KRISHNA S	
37	37	SCM21CS038	AVANTHIKA ANAND	
38	38	SCM21CS039	CEMAL AJMAL	
39	39	SCM21CS040	CHRISTY SAJI	
40	40	SCM21CS041	CLARIS ISIDORE	
41	41	SCM21CS042	DAN SHIJU	
42	42	SCM21CS043	DEEPAK MOHAN	
43	43	SCM21CS044	DERIN JOBY	
44	44	SCM21CS045	DEVANARAYANAN K S	
45	45	SCM21CS046	DEVIDAS	
46	46	SCM21CS047	DIMA YUNUS PARAMBAN	

47	47	SCM21CS048	EDWIN ISSAC MATHEW	
48	48	SCM21CS049	ELENA GEORGE	
49	49	SCM21CS050	EVIN ROBIN	<i>Evina</i>
50	50	SCM21CS051	FIDHA FATHIMA SALEEM	<i>FID</i>
51	51	SCM21CS052	GAUTAM BIJU	
52	52	SCM21CS053	GAUTHAM P MANOJ	<i>Gautham</i>
53	53	SCM21CS054	GAYATHRI GANESH BABU	
54	54	SCM21CS055	GEORGIN JACOB MATHEW	<i>Georgin</i>
55	55	SCM21CS056	GOPIKA SATHEENDRAN	<i>Goopy</i>
56	56	SCM21CS057	GOWRY V M	<i>Gowry</i>
57	57	SCM21CS058	HAFIS MUHAMED P NASAR	<i>Hafis</i>
58	58	SCM21CS059	HANNA SALIM	<i>Hanna</i>
59	59	SCM21CS060	HARIGOVIND B	<i>Harigovind</i>
60	60	SCM21CS061	HRISHIKESH V S	<i>HRISHIKESH</i>
61	61	SCM21CS062	HRITHIK MANOJ	<i>HRITHIK</i>
62	62	SCM21CS064	IRIN PAULY	<i>Irin</i>
63	63	SCM21CS065	JAVED RAHMAN N A	<i>Javed</i>
64	64	SCM21CS066	JEFFIN MANESH N	<i>Jeffin</i>
65	65	SCM21CS067	JEO GEORGE	<i>JEO</i>
66	66	SCM21CS068	JINO JOHNSON	<i>Jino</i>

Neenu

Mrs. Neenu Sebastian
Event Coordinator

Dr. Varun G Menon

Dr. Varun G Menon
HOD-CSE

SCMS School of Engineering and Technology

Department of Civil Engineering

Specification: Seminar

IPR/RM/ENTERPRENEURSHIP: RM

Seminar Topic: Latest research trends on bonded post-tensioned slabs

Date: 2nd May, 2020

Er. Madhu Sethumadhavan, Project Manager, Colliers International detailed on Post tension bonded systems used in bridges and buildings as a part of seminar organized by the Department of Civil Engineering on 2nd May 2020 at 3:30pm. The session held through ZOOM platform was attended by almost 25 participants, including students and faculty of the department.

The session started with an introduction to the concept of post tensioning where he discussed its principle and made a comparison of the same with conventional techniques. Post tension bonded systems are used in bridges and buildings as they allow for flat slabs eliminating the need of drop beams and increasing the span length while staying more economical than conventional systems. He also briefed on components and various types of post-tensioning. The systems of post-tensioning were well explained with figures. The advantages and disadvantages of the system was also pointed out in the webinar. The talk was quite interesting as he added certain animation videos to explain the post tensioning system.

At the end of session, the participants had an interaction with the resource person. The webinar enlightened the attendees in understanding the importance of adapting this technique in construction.



DEPARTMENT OF CIVIL ENGINEERING

SSET SCMS School of
Engineering & Technology

Campus: Vidya Nagar, Karukutty, Ernakulam-683576, Tel: 91 484 2882900 / 901



Er. Madhu Sethumadhavan

Project Manager
Colliers International

Latest research trends on bonded post- tensioned slabs

2 May
2020

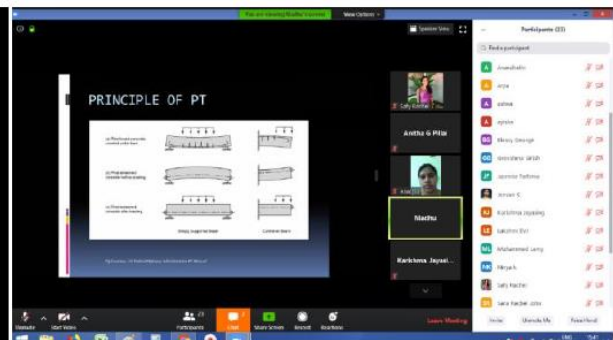


On Zoom meeting

Co-ordinator
Ms. Aswini J



SSET Student Chapter

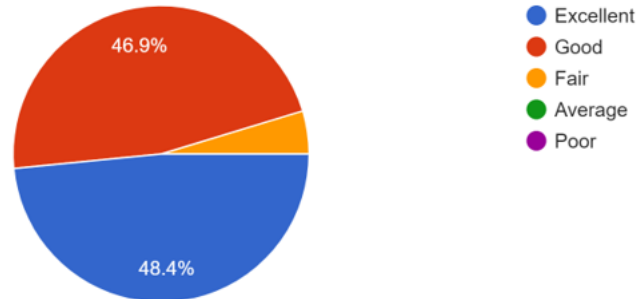


Seminar on "Latest research trends on bonded post-tensioned slabs"
by Er. Madhu Sethumadhavan (02-05-2020)

FEEDBACK FROM PARTICIPANTS

How useful did you find the session?

24 responses



Prepared by,

Ms. Aswini J

Co-ordinator

Verified by,

Dr. Anitha G Pillai

HOD, CE

SCMS School of Engineering and Technology

Department of Civil Engineering

Specification: Seminar

IPR/RM/ENTERPRENEURSHIP: RM

Seminar Topic: Latest research on blended cements

Date: 12th May, 2020

A seminar was organised by the Department of Civil Engineering, SCMS School of Engineering and Technology on 12th May 2020 from 11.30 am to 12.30 pm. The speaker was **Er. Sebin Jose** who is currently the Assistant General Manager, Customer Services, Zuari Cements. There were 55 participants for the webinar including students and faculty of the department of Civil Engineering. The webinar provided insights into blended cement concrete for durable corrosion free concrete structures in aggressive environments.

Webinar started with the discussion on the basic concepts of ordinary portland cement, its manufacturing process and properties. Use of different materials to be added as ingredients for manufacturing blended cements was also dealt with. A comparison of the properties of concrete with ordinary portland cement and blended cement was made. Different advantages of using blended cement in concrete were explained in detail and the discussion mainly focussed on pointing out advantages of blended cement in durability and economical aspects. Chemical reactions that contribute to the strength development in concrete using blended cement were also explained.

The session concluded with a doubt clearance session where the students got the opportunity to clear their doubts regarding the use of blended cements. The problems related to the mixing of ordinary portland cement and blended cement in construction sites was a topic of discussion.



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Er. Sebin Jose

Assistant General Manager
- Customer Services



Latest research recommendations on blended cements

12 May 2020



On Zoom meeting

Co-ordinator
Ms. Aswini J



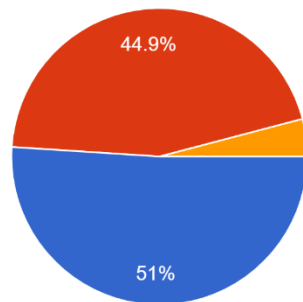
SSET Student Chapter



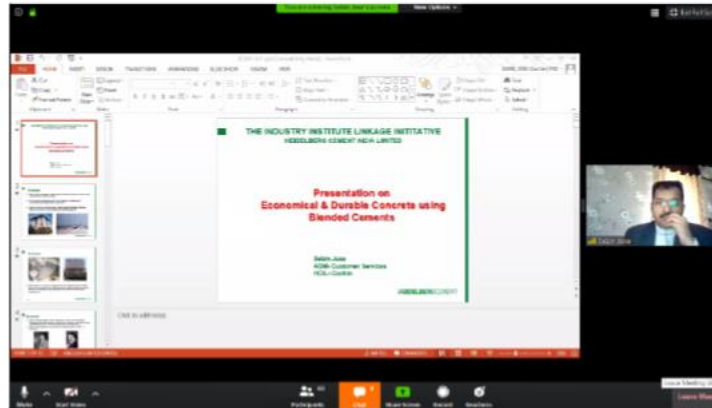
FEEDBACK FROM PARTICIPANTS

How useful did you find the session?

49 responses



- Excellent
- Good
- Fair
- Average
- Poor



Seminar on "Latest research on blended cements" by Er. Sebin Jose (12-05-2020)

Prepared by,

Ms. Aswini J
Co-ordinator

Verified by,

Dr. Anitha G Pillai
HOD, CE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING



SCMS School Of Engineering And
Technology Vidya Nagar, Pallisery,
Karukutty, Ernakulam-683 576, Kerala

Research Ideas on

ONLINE TALK

ADVANCED ELECTRICAL
MACHINES FOR EV APPLICATION



Dr. Sreeju S Nair
Leading Expert in the field
of Electric Vehicle (EV)
Motors and IEEE Senior
member.

MAY 12

11AM TO 12PM

Join for the seminar at 10:45 AM to avoid last minute hassles.

ACE
Association of Core Electricals

**Break
the
chain**

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



SCMS School Of Engineering And Technology Vidya Nagar, Pallisery, Karukutty, Ernakulam-683 576, Kerala

Research Ideas on

ONLINE TALK

ADVANCED ELECTRICAL MACHINES FOR EV APPLICATION



Dr. Sreeju S Nair

Leading Expert in the field of Electric Vehicle (EV) Motors and IEEE Senior member.

MAY 12

11AM TO 12PM

Join for the seminar at 10:45 AM to avoid last minute hassles.



Full Name *

Check answer text



SCMS School of Engineering and Technology
Department of Electrical and Electronics Engineering

Research Ideas on

ADVANCED ELECTRICAL MACHINES ON EV APPLICATIONS

Date: 12TH May, 2020

A webinar on 'Advanced Electrical Machines for EV Application' was organised by the EEE Department of SSET on May 12, 2020. The main speaker at the webinar was IEEE Senior Member **Dr.Sreeju S.Nair, who is a leading expert in the field of electric vehicle** motors. He gave insight into the use of wide variety of drives for electric vehicle motor design. Around 50 students and 10 faculty members took part in the webinar, which elicited good feedback from among the participants. Mrs. Priya Venugopal, faculty in-charge of the programme, coordinated the programme under the leadership of Head of the Department, Dr.M. Nandakumar.

Dr. Sreeju S Nair began the session by emphasizing the significance of hybrid electric vehicle in the present scenario, especially for being safe and environment friendly. Electric vehicles would enable the increased use of electrical power in areas such as vehicle performance, fuel economy, emissions, passenger comfort, and safety. He mainly focused on the drives used in electric hybrid motors along with the power electronics convertor part, which includes AC-DC-AC.

In HEVs, PHEVs and fuel-cell vehicles, the challenges are to achieve high efficiency, ruggedness, small sizes. In fuel-cell vehicles, a power-conditioning unit such as a dc–dc converter for matching the fuel-cell voltage with the battery pack may also be necessary. In steer-by-wire and brake-by-wire applications, a fast-response motor, inverter, and control system are essential and must be able to operate in adverse environmental conditions. The integration of actuators with power electronics not only improves the overall system reliability but also reduces the cost, size, etc. The technology of the electric motor plays a major role in the vehicle's dynamics and the type of power converter for controlling the vehicle operating characteristics.

In the next part of the session he explained about the drives. The various types of electric motors used in electric vehicles DC Series Motor, Brushless DC Motor, Permanent Magnet Synchronous Motor (PMSM), Three Phase AC Induction Motors and Switched Reluctance Motors (SRM).

Hybrids are generally found with AC motors, of which three types are used--the permanent magnet type, the three-phase induction type and the multi-phase induction type

The electric motor in a hybrid car serves a dual purpose; it not only provides torque to drive the wheels, but when the car is braking, the electric motor becomes a generator and charges the batteries. Hybrids use their electric motors in conjunction with an internal combustion engine (ICE) that charges the batteries. It is part of the drive train of the car. Often the hybrid car will derive power from both the electric and ICE at the same time, while sometimes power is supplied by the electric motor only, which results in a very quiet ride

In the future, motors will naturally continue to grow in performance and efficiency. Some innovators will seek out magnets made using more low-cost and non-rare-earth elements, as Honda recently did in a development project with Daido Steel. Their neodymium magnet contains no heavy rare earth material but is still powerful enough for vehicle use. Motor speeds will also improve from the present range of 12,000–18,000 rpm.to 30,000 rpm—with the benefit that a smaller, lighter motor can do the work of a larger one that spins more slowly.

In short, the session helped the participants to gain information on the use of various drives and motors in the field of electric vehicle motor design.

Glimpses of the webinar:

The screenshot displays a webinar interface. On the left, a slide titled "PM-BDC Motor" is visible. The slide content includes:

- PM-BDC Motor**
- A permanent magnet DC (PMDC) motor is a motor whose poles are made out of permanent magnets.
- Advantages:**
 - Since no external field circuit is needed, there are no field circuit copper losses.
 - Since no field windings are needed, these motors can be considerably smaller.
- Disadvantages:**
 - Since permanent magnets produce weaker flux densities than externally supplied stator fields, such motors have lower induced torque.
 - There is always a risk of demagnetization from excessive heating or from armature reaction effects (via armature field).

Below the text is a small image of a motor component labeled "Fig. PM-BDC motor".

On the right side of the interface, there is a grid of 12 video feeds. The top row shows three active video feeds for participants: Dr. Nandaku..., Priya Venuga..., and Steev Marj. The remaining 9 video feeds are inactive, showing only the participant's name: akshay, sanjay shaji, Habeeb's iPhone, TRITIN THOMAS, Akhil Paulson, Sahal, Jayalakshmi S, Vishnu M, varun jose, Bharath K R, AJIN P THOMAS, and Lakshmi C R.

Interior Permanent Magnet (IPM) Machine

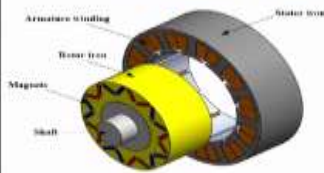


Fig. Schematic of IPM

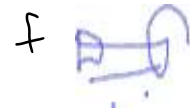


IPM motor rotor and stator

- ❖ Magnets are embedded inside the rotor
- ❖ Retaining sleeve in SPM may no longer be needed, which simplifies the manufacture procedure
- ❖ Reduces the usage of magnets
- ❖ Reduction of the effective air-gap length, resulting in high inductance and high field weakening capability of IPM (Wide speed range)
- ❖ Torque is generated by the interaction of magnet fields and also by the reluctance as in SRM and SynRm
- ❖ The contribution from the reluctance towards torque is below 50% and magnet torque is major

Slide 30

jeju Nair's screen



Dr. Nandakumar M
HoD (EE)

Online Talk[®] Advanced Electrical Machines for Electric Vehical (EV) Applications[®]

Attendance Sheet

	Timestamp	Email Address	Full Name	University Register Number	Contact No.
30	5/10/2020 13:17:37	jeswinaleephazh7@gmail.com	Jeswin Stephen	192	7552963362
31	5/10/2020 13:24:35	ajah97@gmail.com	Mohamed Ejah H	39	8111644452
32	5/10/2020 13:35:44	mraradev184@gmail.com	Braeden M H	16057	9887713542
33	5/10/2020 13:36:25	anaghaard07@gmail.com	Anagha Anil	16016	8281274781
34	5/10/2020 14:23:23	alanbaker@gmail.com	Alan Jarrā	16012	7512927321
35	5/10/2020 14:23:59	malch29@gmail.com	K a mohammed sahel	16020	9833622234
36	5/10/2020 15:15:44	rinso.dnu723@gmail.com	Muhammad M A	646	7551950619
37	5/10/2020 15:50:50	leyaprathap123@gmail.com	Laya Prathap	16037	7125528196
38	5/10/2020 16:38:20	anjulher1998@gmail.com	Anju Albert	16017	9251369650
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48	5/11/2020 10:30:32	aswinumrthan@gmail.com	ASWIN S UNNITHAN	16024	8281870334
49	5/11/2020 11:34:29	lakshmi11091997@gmail.com	Lakshmi R S	35	9468554493

Pl join the online talk at 10:45am to avoid last minute hassles

Join Zoom Meeting

<https://us04web.zoom.us/j/775574230597?pwd=amoZVnplHN29Nz0pcWVESlRQUiswdz09>

Handwritten signature

**SCMS School of Engineering And Technology, Karukutty
Department of Electrical & Electronics Engineering**

FEEDBACK RESPONSE

Question	The program was well organized and structured	The resource person was knowledgeable ,organized and Effective in his presentation.	The resource person provide information useful for my career development
	Good	Ok	Good
	Good	Ok	Ok
	Good	Poor	Good
	Good	Good	Good
	Good	Good	Good
	Good	Good	Good
	Good	Good	Good
	Good	Good	Good
	Good	Good	Ok
	Good	Good	Ok
	Good	Good	Ok
	Good	Ok	Ok
	Good	Good	Good
	Good	Good	Good
	Good	Ok	Ok
	Good	Good	Good
	Good	Good	Good
	Good	Ok	Ok
	Good	Good	Good



Dr. DIVYA NATH K

Department of Electrical and Electronics
Engineering



SCMS School Of Engineering and Technology
Vidya Nagar, Palissery, Karukutty,
Ernakulam-683576, Kerala

Research skills -

Online Talk

"ELECTRIC GRID OVERVIEW"



MAY 18
10:00 A M

Er. Gopakumar Gopinathan
Operations Engineer - Lead
California ISO, USA





VARUN JOSE <varunjose@scmsgroup.org>

Joining details and instructions for online talk " **Electric Grid Overview** " on 18th
 May 2020 10AM IST by Er.gopakumar gopinathan
 message

VARUN JOSE <varunjose@scmsgroup.org>

Sun, May 17, 2020 at 10:54 AM

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Department of Electrical and Electronics Engineering



SCMS School Of Engineering and Technology
 Vidya Nagar, Palissery, Karukutty,
 Ernakulam-683576, Kerala

Online Talk

"ELECTRIC GRID OVERVIEW"

MAY 18

10:00 A M

Er. Gopakumar Gopinathan
 Operations Engineer - Lead
 California ISO, USA



Joining details to attend online talk "**Electric Grid Overview**" on 18th may
 monday 10am by Er.gopakumar gopinathan

TO JOIN LINK or Meeting URL: <https://meet.google.com/pmx-jjyk-tit>

Online talk " Electric Grid Overview "on 18th may monday 10am by Er.Gopakumar Gopinathan

The Department of Electrical & Electronics of SSET under the leadership of Dr.M.Nandakumar , Prof & HOD(EEE) arranged an online talk " Electric Grid Overview "on 18th may monday 10am by Er.gopakumar gopinathan via Google Meet . The meeting id is : <https://meet.google.com/pmx-jjyk-tit> . Er. Gopakumar Gopinathan, Granite Bay, California is Operations Engineer Lead at CALIFORNIA ISO . He has Over 12 years of combined experience in Operations Engineering, Market Design and Engineering support and is extensively involved in design, testing and support of CAISO's Energy Market. Also he is Professional Engineer (PE) certified in the State of California and Reliability Coordinator NERC certified . He delivered an online talk on Electric Grid Overview which included sub topics like smart grid , micro grid , renewable energy ,market and industry trends and future of electric grid . The talk continued till 11.15 and was highly informative . The participants consisted of all EEE Dept faculties , S8EEE students , S6EEE stuents . There was around 45 participants . Dr.M.Nandakumar introduced the resource person and at the end of session many participants told their feedback and appreciation about the same . Mrs.Deepa S , Associate professor ,EEE ,SSET delivered vote of thanks .



Mr. Varun Jose
COORDINATOR

Registration Details

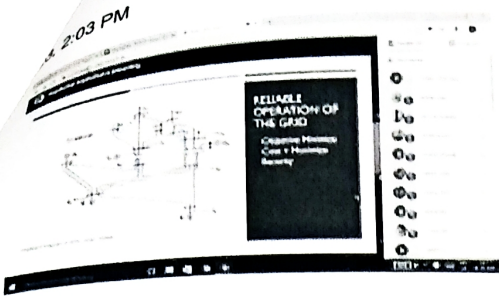
Electric Grid Overview

Timestamp	Username	1. FULL NAME *	2. University Register Number	3. Contact No. *
2020/05/15 1:	deepas@scmsgroup.org	Deepa.S		9846375859
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2020/05/16 12:	aswinscorpion@gmail.com	Aswin S Kumar	SCM17EE011	9567407164

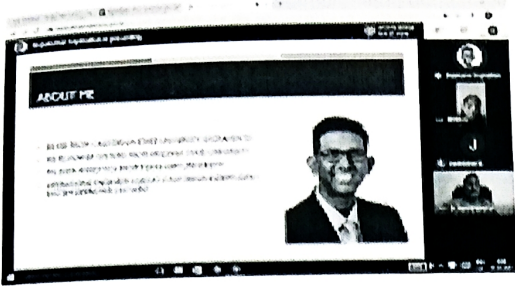
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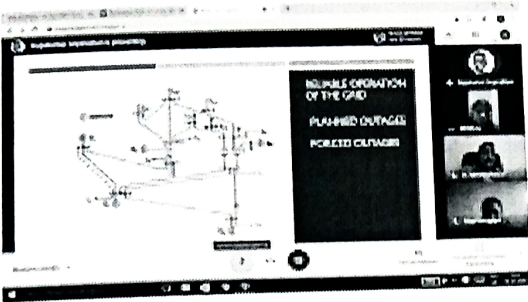
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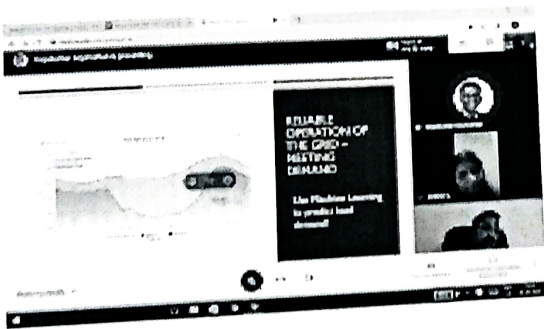
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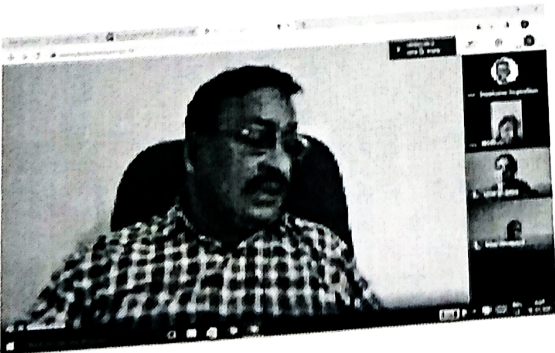
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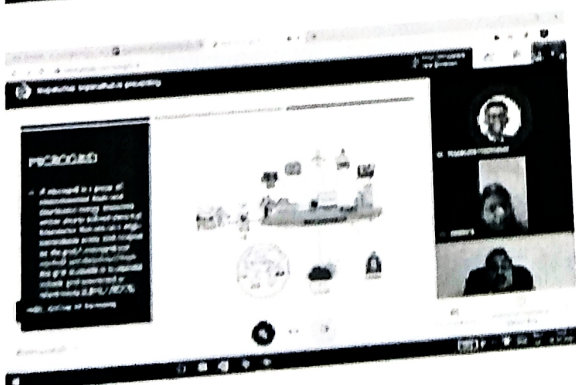
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Untitled6.png
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talk 1.png
1075K



Untitled8.png
475K



Divyanath K. <divyanath@scmsgroup.org>

Fwd: online talk by Er.Gopakumar 18th may screen shots

Dr. Nandakumar M <nandakumar@scmsgroup.org>

Mon, May 18, 2020 at 11:21 AM

To: beena@scmsgroup.org, deepas@scmsgroup.org, divyanath@scmsgroup.org, jayalakshmi@scmsgroup.org, lakshmibabu@scmsgroup.org, lakshmicr@scmsgroup.org, priyavenugopal@scmsgroup.org, reenubose@scmsgroup.org, VARUN JOSE <varunjose@scmsgroup.org>

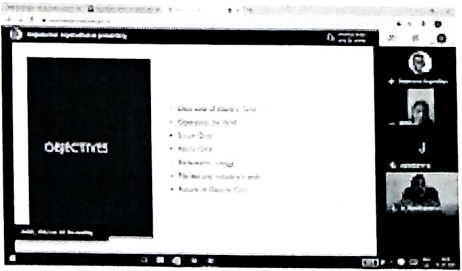
----- Forwarded message -----

From: **VARUN JOSE** <varunjose@scmsgroup.org>
Date: Mon, May 18, 2020 at 11:15 AM
Subject: online talk by Er.Gopakumar 18th may screen shots
To: <nandakumar@scmsgroup.org>

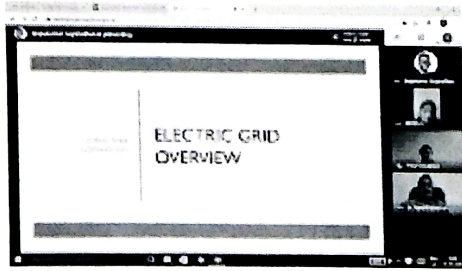
--
Mr. VARUN JOSE J M
Asst. Professor
E.E.E Department
S.C.M.S SCHOOL OF ENGINEERING AND TECHNOLOGY ,KARUKUTTY
8113980768

--
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Professor & HOD
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15 attachments



Untitled3.png
205K



Untitled.png
237K



**SCMS School of Engineering And Technology, Karukutty
Department of Electrical & Electronics Engineering**

FEEDBACK RESPONSE

Question	The program was well organized and structured	The resource person was knowledgeable ,organized and Effective in his presentation.	The resource person provide information useful for my career development
	Good	Good	Good
	Good	Good	Good
	Good	Good	Good
	Good	Good	Good
	Good	Good	Ok
	Good	Good	Ok
	Good	Good	Ok
	Good	Ok	Ok
	Good	Good	Good
	Good	Good	Good
	Good	Ok	Ok
	Good	Good	Good
	Good	Good	Good
	Good	Ok	Ok
	Good	Good	Good



Dr. DIVYA NATH K

Did the speaker
engage the
audience

Ok

Good

Good

Ok

Good

Good

Good

Good

Good

Good

Good

Good

Good

Good

Good

Good