

NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING

A report on Expert Lecture by Mr.D.Suresh on Wireless and Mobile Communication

A Guest Lecture on Wireless and Mobile Communication by Mr.D.Suresh, currently working for a Japanese company enabling product to support new markets like IIOT, Edge analytics surveillance systems with cloud connectivity, secure payment and measurement systems to enable smart city and grid segment, was delivered on November 3<sup>rd</sup>, 2018 for the students of B.E (ECE) VII-sem.

The speaker started his lecture session with the need to study communication and described various technologies involved in the embedded systems like FPGA, ARM.He later gave a brief insight on radio communication system i.e. Software-defined radio (SDR).The session went on by addressing the various new technologies power CT technologies like

1. AI Robotics
2. Cloud security
3. Multicore IC's (heterogeneous)
4. Virtual reality and augmented reality
5. 3D printing
6. 5G network
7. Chip level optical configuration

The speaker later briefed on various communication standards like LORA, Wi-Fi, Zigbee and Bluetooth. He later addressed on various service enablers --meeting requirements like

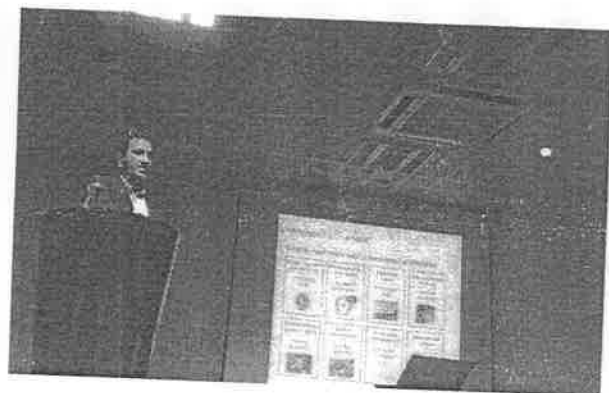
1. mm Wave System/RFIC
2. New Channel Coding
3. Network Slicing
4. <8 GHz Massive MIMO
5. Massive Connectivity (IOT)
6. Low Latency Network

The session proceeded with a brief description of 5G technology. He gave a brief description about 5G key enabling technologies like

1. Network densification.
2. Very compact and massive MIMO antennas.
3. High and agile spectrum usage (wide communication bands).
4. Distributed mobile edge cloud and intelligence support.
5. Full duplex communication and advanced caching techniques.

The speaker then discussed about 5G unknown issues, bandwidth and latency requirements for generic applications and MIMO systems. He concluded the session by suggesting some of the career options in various domains like embedded AI, Industrial IOT and hardware design.

The lecture has proven to be informative and inspiring to all the students present for the session.



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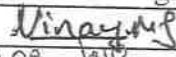

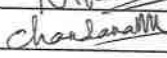


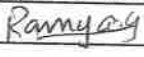
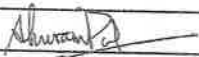

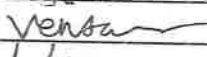
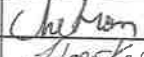
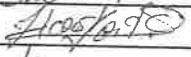
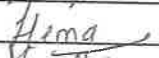



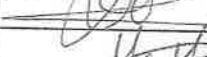

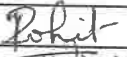


**New Horizon College of Engineering, Bangalore**  
**Department of Electronics and Communication Engineering**  
**Expert Lecture Attendance**

Course Name : Wireless and Mobile Communication  
 Resource Person : Mr.D.Suresh  
 Module : : Unit 5 - Introduction to MIMO Systems  
 Sem / Sec : : VIIA  
 Date: : 03.11.18

Course Code: ECE 71

Time: 10.00 AM - 01.00 PM

SL.No	USN	Name	Signature
1	1NH13EC022	C Akshay Reddy	
2	1NH14EC061	K S DivyaTeja	
3	1NH14EC737	Abhishek Reddy V	
4	1NH15EC001	Vinay Kumar Reddy	
5	1NH15EC018	Deexith S	
6	1NH15EC019	Denzel Abraham George	
7	1NH15EC022	Greeshma. R	
8	1NH15EC030	Janardhan.S.P	
9	1NH15EC031	Jayanth M K	
10	1NH15EC036	Karthik R	
11	1NH15EC040	Kesav. S	
12	1NH15EC045	Manikanta.K	
13	1NH15EC047	Mari Setti Venkata Ramakrishna	
14	1NH15EC048	Megha.D.R	
15	1NH15EC062	Nikhil Riyaz	
16	1NH15EC065	Obili Srinidhi	
17	1NH15EC066	Pamisetty Udayabhanu	
18	1NH15EC076	Rachitha.M.R	
19	1NH15EC078	Radhika.B	
20	1NH15EC079	Riya Dey	
21	1NH15EC083	S P Rahul Kumar	
22	1NH15EC088	Saleh Junaid Ahmed	
23	1NH15EC100	Shruthi Rajamani	
24	1NH15EC105	Shyla Shree.R	
25	1NH15EC106	Siddharth P	
26	1NH15EC112	SREE RENUKAAKSHITHA	
27	1NH15EC114	Sumanth.R	
28	1NH15EC116	Surendra Kumar	
29	1NH15EC120	Thribhuvan L	
30	1NH15EC125	Veda.J	
31	1NH15EC126	Vidhut Sharma	
32	1NH15EC127	Virender Singh	
33	1NH15EC129	Yakshika.A	
34	1NH15EC131	S Reshma	
35	1NH15EC406	Gayathri V	
36	1NH15EC413	Pavana M	

SL.No	USN	NAME	Signature
37	1NH15EC423	Vinay M Sudhakar	
38	1NH15EC430	Niveditha V	
39	1NH15EC705	Chandana M	
40	1NH15EC709	Goutham R	
41	1NH15EC719	Nirmal Anand	
42	1NH15EC727	R. Hari Raj	
43	1NH15EC728	Raahul John Alex	
44	1NH15EC732	Ramya G	
45	1NH15EC734	Rashmi.S	
46	1NH15EC738	Rushika Ujjwal	
47	1NH15EC741	Sanjana Ranjan	
48	1NH15EC748	Shuvam Pal	
49	1NH15EC752	Suraj Kumar Sharma	
50	1NH15EC754	Syed Saqlain Ahmed	
51	1NH15EC756	Venkatesh T	
52	1NH16EC400	Chethan B R	
53	1NH16EC402	Harsha Vardhan R	
54	1NH16EC404	Hemavathi S	
55	1NH16EC405	Kavyashree M	
56	1NH16EC406	Kushal D Pravarda	
57	1NH16EC407	Lavanya C Y	
58	1NH16EC409	LOKESHARAO V	
	1NH16EC410	M. Mrinal	
60	1NH16EC414	Muralidharan E	
61	1NH16EC416	Naresh Babu	
62	1NH16EC421	Rakshitha N	
63	1NH16EC424	Rohit R	
64	1NH16EC429	Ullas M S	
65	1NH16EC431	Aravind K	

Faculty Incharge

HOD / ECE

**New Horizon College of Engineering, Bangalore**  
**Department of Electronics and Communication Engineering**

**Expert Lecture Attendance**

Course Name : Wireless and Mobile C Course Code: ECE 71  
 Resource Person : Mr.D.Suresh  
 Module : Unit 5 - Introduction to MIMO Systems  
 Sem / Sec : VIIB  
 Date: : 03.11.18

Time:10.00 AM - 01.00 PM

SL.No	USN	Name	Signature
1	1NH13EC138	D Ramya	Damya
2	1NH14EC037	Geetha M	Geetha M
3	1NH14EC132	Srustik Subhash	Srustik
4	1NH14EC147	Yerrabapu Rohit Reddy	Rohit Reddy
5	1NH14EC722	Nishanth Reddy K	Nishanth Reddy
6	1NH14EC723	Nithya V	Nithya V
7	1NH15EC002	Abhuri Greeshma	Abhuri Greeshma
8	1NH15EC003	B Achal	B Achal
9	1NH15EC004	Akash Mallappa Mantur	Akash M
10	1NH15EC005	Akhil Chowdary. M	Akhil
11	1NH15EC006	Akshitha.KS	Akshitha.KS
12	1NH15EC009	Anusha M	Anusha M
13	1NH15EC010	Aparna.M	Aparna.M
14	1NH15EC011	Bhavana Savanth	Bhavana Savanth
15	1NH15EC012	Bujja Ajay	Bujja Ajay
16	1NH15EC013	Chandini C	Chandini C
17	1NH15EC014	Chandra Shekhar.K.R	Chandra Shekhar.K.R
18	1NH15EC016	Deepak S	Deepak S
19	1NH15EC017	Deepika.S	Deepika.S
20	1NH15EC023	Gurushree Bhat U	Gurushree Bhat U
21	1NH15EC025	Harshitha J R	Harshitha
22	1NH15EC026	Harshitha N	Harshitha N
23	1NH15EC027	Hemanth Kathick R	Hemanth Kathick R
24	1NH15EC028	Hemanth Kumar.R	Hemanth Kumar.R
25	1NH15EC029	Irfan	Irfan
26	1NH15EC032	Javanth S	Javanth S
27	1NH15EC033	Jitin Jain Mathew	Jitin Jain Mathew
28	1NH15EC034	K B Hithesh	K B Hithesh
29	1NH15EC035	K.R.Amrutha	K.R.Amrutha
30	1NH15EC037	Karthik.V	Karthik.V
31	1NH15EC038	Kavya.D.R	Kavya.D.R
32	1NH15EC039	Keerthi.U.M	Keerthi.U.M
33	1NH15EC043	Laxmi Sah	Laxmi Sah
34	1NH15EC046	Manamohan	Manamohan
35	1NH15EC049	Mithun.V	Mithun.V
36	1NH15EC050	Mohammed Musaveer	Mohammed Musaveer
37	1NH15EC051	Mohammed Shabaz	Mohammed Shabaz
38	1NH15EC052	Monika Reddy	Monika Reddy

SL.No	USN	NAME	Signature
39	1NH15EC053	Monisha.M	Monisha.M
40	1NH15EC054	Mukesh	Mukesh
41	1NH15EC056	Nagarjun K S	Nagarjun KS
42	1NH15EC057	Nalini.K	Nalini
43	1NH15EC058	Priyanka Nallagouni	
44	1NH15EC060	Naveen.K.R	
45	1NH15EC061	Naveen.P	Naveen.P
46	1NH15EC070	Venkata Sai ganesh	
47	1NH15EC071	Preeti .K.Mehtry	
48	1NH15EC073	Punarva.A	
49	1NH15EC077	Radhakrishna.C	Radhakrishna.C
50	1NH15EC081	Rukmini.N	
51	1NH15EC085	Saahil Rai	Rukmini
52	1NH15EC086	Sachin Yadav	Sachin
53	1NH15EC089	Samarpan Chakraborty	
54	1NH15EC102	Shubha.A	Shubha
55	1NH15EC113	Subramanaya Ganesh	
56	1NH15EC117	Swathi.R	Swathi
57	1NH15EC121	Tirumala Satheesh	
58	1NH15EC132	Himakeerthi ✓	J.S. Himakeerthi
59	1NH15EC135	Deepti S	
60	1NH15EC435	Archana M	
61	1NH15EC703	Thyagaraj M	
62	1NH15EC714	Ashwin S	
63	1NH15EC724	Jishma Asmi. V	
64	1NH15EC724	Prasanna Kumar.D	Prasanna Kumar.D
65	1NH15EC755	Syed Zahid Ulla	
66	1NH16EC401	Dilip Kumar R	Dilip Kumar R
67	1NH16EC411	Madhavi Irranna Sajjan	
68	1NH16EC412	Mohammed Faizulla D K	Mohammed Faizulla D K
69	1NH16EC413	Mohan Kumar V	Mohan Kumar V
70	1NH16EC415	Namitha Reddy V	Namitha
71	1NH16EC417	Padmini M E	Padmini
72	1NH16EC419	Praveenkumar R Jadhav	Praveenkumar R Jadhav
73	1NH16EC420	Priyanka P	Priyanka
74	1NH16EC423	Ramitha B	Ramitha B
75	1NH16EC426	Sachin K B	Sachin K B
76	1NH16EC427	Shashikumar M R	Shashikumar M R
76	1NH16EC428	Sowmya P	Sowmya P

*[Signature]*

Faculty Incharge

*[Signature]*  
HoD / ECE

**New Horizon College of Engineering, Bangalore**  
**Department of Electronics and Communication Engineering**  
**Expert Lecture Attendance**

Course Name : Wireless and Mobile Communication Course Code: ECE 71  
 Resource Person : Mr.D.Suresh  
 Module : Unit 5 - Introduction to MIMO Systems  
 Sem / Sec : VIIC

Date: : 03.11.18

Time: 10.00 AM - 01.00 PM

SL.No	USN	Name	Signature
1	1NH14EC026	D Vedavathi Kiranmai	
2	1NH14EC052	Priyanka Milton	
3	1NH15EC020	Gadipudi Asrith	
4	1NH15EC021	Gattu Raghunadham	
5	1NH15EC041	Kolli Srinivasa Reddy	
6	1NH15EC042	Konuru Gopi	
7	1NH15EC044	Madala Kalyan Kumar	
8	1NH15EC055	Nagabhvru Kushvanth Chowdary	
9	1NH15EC059	Nanditha S	
10	1NH15EC064	Noti DineshKumar Reddy	
11	1NH15EC069	Pavan Kumar s	
12	1NH15EC074	Putti Reddy Akhil Reddy	
13	1NH15EC080	Roopa D Almeida	
14	1NH15EC082	Rushali Raina	
15	1NH15EC084	S.Suhas	
16	1NH15EC087	Sakkirala Satwik Yadav	
17	1NH15EC090	Sandhya B	
18	1NH15EC091	Sanjay Kumar.A	
19	1NH15EC092	Sanjeev Jayasurya.S	
20	1NH15EC094	Satish.J	
21	1NH15EC095	Shaik Sohail	
22	1NH15EC096	Sharath.N	
23	1NH15EC098	Shilpa.V	
24	1NH15EC099	Shreyas S	
25	1NH15EC101	Shruti Jana	
26	1NH15EC104	Shwetha.R	
27	1NH15EC107	Sneha P	
28	1NH15EC108	Sneha.S	
29	1NH15EC110	Soundarya B K	
30	1NH15EC111	Sowmya.S	
31	1NH15EC115	Suraj R	
32	1NH15EC118	Tarun Gowda.S.M	
33	1NH15EC119	Thanuja A	
34	1NH15EC122	V.Bharat Raj	
35	1NH15EC123	V Megha	
36	1NH15EC124	Varikuti Harsha Vardhan Reddy	

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SL.No	USN	NAME	Signature
37	1NH15EC128	Virupaksha	
38	1NH15EC130	Kaliki Poojasri	
39	1NH15EC133	Namratha B R	
40	1NH15EC134	Manoj Kumar K	
41	1NH15EC700	Abhishek Gowda.K.M	
42	1NH15EC702	Anusha.R	
43	1NH15EC704	Basanagouda Patil	
44	1NH15EC706	Vijay Krishna	
45	1NH15EC708	Ekta Shukla	
46	1NH15EC711	Hakesh Kolukonu	
47	1NH15EC712	Hari Chandana Veldanda	
48	1NH15EC713	I G Kevin Christopher Morris	
49	1NH15EC716	Megha N	
50	1NH15EC718	Namrata Sudhir Katrale	
51	1NH15EC722	Pavithra.R	
52	1NH15EC723	Pradeep.K	
53	1NH15EC725	Prathap R	
54	1NH15EC726	Praveen P Nair	
55	1NH15EC729	Radhika R	
56	1NH15EC730	Rahul S	
57	1NH15EC731	Rakshitha.L	
58	1NH15EC733	Ramya R	
59	1NH15EC739	S K Mohammad Akhleem Nawaz	
60	1NH15EC740	S Krithika	
61	1NH15EC742	Savita Shivanand Patil	
62	1NH15EC743	Sharath C R	
63	1NH15EC744	Shiva Prasad.H.S	
64	1NH15EC745	Shivani Kumari	
65	1NH15EC746	Shivani.V	
66	1NH15EC749	Shwetha.P.S	
67	1NH15EC750	Snehith .V. Gowda	
68	1NH15EC751	Suraj Davis	
69	1NH15EC753	Surya V	
70	1NH15EC757	Manoj V	
71	1NH16EC408	Lokesh	
72	1NH16EC422	Ramesh Birgi	
73	1NH16EC425	Sachin B S	

Faculty Incharge

HoD / ECE



**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
FEEDBACK FORM**

**NAME OF THE EVENT/CLUB:** GUEST LECTURE WIRELESS COMMUNICATION

**FEEDBACK ON (Mention the topic):**

**DATE:** 03/11/2018

**Instruction:** Please put a tick mark at the appropriate column.

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent	✓	✓	✓	✓	✓
Good					
Average					
Satisfactory					

**Comments/Remarks/Suggestions:**

- 1.
- 2.
- 3.

**Name & USN No. (optional)**

**Signature (optional)**

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**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
FEEDBACK FORM**

**NAME OF THE EVENT/CLUB:** GUEST LECTURE WIRELESS

**FEEDBACK ON(Mention the topic):**

**DATE:** 3/11/2018

**Instruction: Please put a tick mark at the appropriate column.**

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent	✓	✓	✓	✓	✓
Good					
Average					
Satisfactory					

**Comments/Remarks/Suggestions:**

- 1.
- 2.
- 3.

**Name & USN No.(optional)**

**Signature (optional)**

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**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
FEEDBACK FORM**

**NAME OF THE EVENT/CLUB:**

**FEEDBACK ON (Mention the topic):** *5G Development*

**DATE:** *03/10/18*

**Instruction:** Please put a tick mark at the appropriate column.

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent					
Good	✓	✓	✓	✓	✓
Average					
Satisfactory					

**Comments/Remarks/Suggestions:**

- 1.
- 2.
- 3.

**Name & USN No. (optional)**

*Harsha Vaedhan (EC1NH16EC402)*

**Signature (optional)**

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**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
FEEDBACK FORM**

**NAME OF THE EVENT/CLUB:**

**FEEDBACK ON (Mention the topic):**

**DATE:**

**Instruction: Please put a tick mark at the appropriate column.**

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent					
Good		✓			
Average	✓		✓	✓	✓
Satisfactory					

**Comments/Remarks/Suggestions:**

1.

2.

3.

Better clarity for sg

**Name & USN No.(optional)**

**Signature (optional)**

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**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
FEEDBACK FORM**

**NAME OF THE EVENT/CLUB:**

**FEEDBACK ON(Mention the topic):**

**DATE:**

**Instruction: Please put a tick mark at the appropriate column.**

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent			✓		
Good	✓	✓		✓	✓
Average					
Satisfactory					

**Comments/Remarks/Suggestions:**

1.

2. Better clarity for 4g fsg

3.

**Name & USN No.(optional)**

**Signature (optional)**

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**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
FEEDBACK FORM**

**NAME OF THE EVENT/CLUB:**

**FEEDBACK ON(Mention the topic):**

**DATE:**

**Instruction: Please put a tick mark at the appropriate column.**

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent	✓	✓	✓	✓	✓
Good					
Average					
Satisfactory					

**Comments/Remarks/Suggestions:**

- 1.
- 2.
- 3.

**Name & USN No.(optional)**

sharath .N

**Signature (optional)**

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**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
FEEDBACK FORM**

**NAME OF THE EVENT/CLUB:** *Expert lecture on wireless communication*

**FEEDBACK ON (Mention the topic):**

**DATE:** *3/11/2018*

**Instruction:** Please put a tick mark at the appropriate column.

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent	✓				
Good		✓	✓	✓	✓
Average					
Satisfactory					

**Comments/Remarks/Suggestions:**

- It was useful to know about 5G mobile n/w's.*
- 
- 

*RADHIKA B INHISEC07R*  
**Name & USN No. (optional)**

*[Signature]*  
**Signature (optional)**

231

**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
FEEDBACK FORM**

**NAME OF THE EVENT/CLUB:**

**FEEDBACK ON(Mention the topic):**

**DATE:**

**Instruction: Please put a tick mark at the appropriate column.**

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent	✓		✓		✓
Good		✓		✓	
Average					
Satisfactory					

**Comments/Remarks/Suggestions:**

1. Content was good.

2.

3.

**Name & USN No.(optional)**

MO. shabaz r

**Signature (optional)**

shabaz.

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**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
FEEDBACK FORM**

**NAME OF THE EVENT/CLUB:** *Workshop of Mobile Com. Guest lecture*

**FEEDBACK ON (Mention the topic):**

**DATE:** *3rd Oct 2018*

**Instruction:** Please put a tick mark at the appropriate column.

Rating	Clarity	Visuals	Skills	Guidance	Overall
Excellent	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Good		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Average					
Satisfactory					

**Comments/Remarks/Suggestions:**

- 1.
- 2.
- 3.

**Name & USN No. (optional)**

**Signature (optional)**

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**NEW HORIZON COLLEGE OF ENGINEERING**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**REPORT ON INDUSTRY EXPERT LECTURE FOR EVEN SEMESTER 2018**

Sl. No.	Date/s of the Lecture	Sem / Sec	Name of the Guest speaker	Designation	Experience	Topic covered by the Speaker	Module	Duration	No. of students attended
1	9/4/2018	IV/A,B,C	Mr. Shivananada Koteshwar	General Manager and site head, Mediatek	23	Digital signal processing	IV - ECE44	1	151
2	11/4/2018	VI/A,B	Mr. Sunder Murthy	Proprietor, LS Control systems Managing Director,	26	ARM Cortex M4 Current Mirrors and Differential Amplifiers	IV - ECE62	3	125
3	12/4/2018	VI/A,B,C	Mr. Srinivasan Pitchai	Mosic Solutions, Bengaluru	13	FPGA Implementation	V - ECE63	2	170
4	16/04/2018	IV/A,B,C	Mr. Shashikanth Patil	Senior Project Engineer, Wipro Technologies	10	Microwave active devices	V - ECE43	2	191
5	17/04/2018	VI/A,B,C	Mr. Nageswararao Pedapati	Deputy Manager	10	555 timer and its applications, ALD1502 and	IV - ECE64	2	212
6	4/21/2018	IV/A,B,C	Ms Dhanaselvi D	Deputy Engineer	10	Building the internet of things: core protocols and standards	V - ECE46	2	99
7	4/21/2018	VI/A,B,C	Dr. Vishwas Lakkundi	Principal architect Smarten spaces, Bangalore	20		V - ECE61	2	228

*Aashale L*

Dean / HOD