



M.A.M. SCHOOL OF ENGINEERING

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SIRUGANUR, TRICHY – 621 105

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7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

BEST PRACTICE 1

TEACHER TEACHES TEACHERS (TTT) SCHEME



MAM SCHOOL OF ENGINEERING
SIRUGANUR TRICHY
DEPARTMENT OF MECHATRONICS ENGINEERING
ACADEMIC YEAR 2019-2020 ODD SEMESTER
TEACHER TEACH TEACHERS (TTT) SCHEME

Date: 9.9.2019

Speaker : Mrs. Deepika
Assistant Professor
Mechatronics Engineering

Staff Attended : Mr. N. Chandrasekar
Mr. Ravichandran
Mr. Tamilarasan
Mr. Arumugasamy
Mr. Karthikeyan
Mr. S. Saravanan

Topic : 5G Technology


Venue : Smart-Class

Date : 9.9.2019

Time : 2.30pm to 3.30pm

**Enclosure Report


HOD


Principal


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Report

The session was initiated by Mrs. J. Deepika Assistant Professor/MCT as per the schedule of time.

The following faculty were attended the program.

1. K. Karthikeyan
2. Mr. Tamilarasan
3. A. Karthick Kumar
4. Mr. Sridher
5. M. Chandrasekar
6. Mr. Partiban
7. S. Saravanan

The speaker has given the lecture on the following topics.

1. Introduction to 5G
2. Evolution from 1G to 5G
3. Feature
4. Architecture
5. Hardware and Software of 5G
6. Advantages and Applications



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TEACHER TEACHES TEACHERS (TTT) SCHEME

5G TECHNOLOGY

Presented by,
J.Deepika
Assistant Professor
Mechatronics Engineering
MAM School of Engineering

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TEACHER TEACHES TEACHERS (TTT) SCHEME

Contents	
• Introduction to SP	
• Evolution from 1G to 5G	
• 5G NR architecture and the 5G network slices	
• Key concepts	
• Architecture	
• Network architecture of 5G	
• Features	
• Advantages	
• Applications	
• Conclusion	

- | What is 5G? | |
|---|--|
| • 5G is the next generation mobile network | |
| • Complete wireless system for mobile communication | |
| • Terrestrial | |
| • Can be used for 5G NR | |
| • Also used for 4G LTE | |
| • Can be used for 5G NR | |
| • Also used for 4G LTE | |

What does it offer?	
• High data rates	20G
• Ultra-low latency	1ms
• High capacity	10T
• High reliability	99.999%
• High energy efficiency	100x
• High security	100x

Benefits of 5G	
• High data rates	20G
• Ultra-low latency	1ms
• High capacity	10T
• High reliability	99.999%
• High energy efficiency	100x
• High security	100x


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TEACHER TEACHES TEACHERS (TTT) SCHEME


1G

- Developed in 1980s & completed in early 1990s
- Based on analog system
- Speed up to 14.4 kbps
- AMPS (Advanced Mobile Phone System) was launched by the US & it was the 1G mobile system
- Allowed user to make voice calls in a country





2G

- Developed in late 1990s & completed in late 1990s
- Based on digital system
- Speed up to 64 kbps
- Services such as digital voice, SMS with more clarity
- Seen pictal facility
- 2G are the handsets we are using today, with more having more capabilities




3G

- Developed between late 1990s & early 2000s
- Transmission speed from 128 kbps to 384 kbps
- Superior voice quality
- Good clarity in video conference
- E-mail, PDA, information surfing, live shopping/banking,
- Global roaming



4G

- Developed in 2010
- Faster & more reliable
- Speed up to 1000 Mbps
- High performance
- Easy roaming
- Low cost



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5G

- Next major phase of mobile systems
- 10 times more capacity than 4G
- Expected speed up to 1 Gbps
- More faster & reliable than 4G
- Lower cost than previous

COMPARISON OF 5G, 4G, AND 3G

Parameter	3G	4G	5G
Speed	~3.1 Mbps	~100 Mbps	~1 Gbps
Latency	~50 ms	~10 ms	~1 ms
Capacity	~100,000 users/km ²	~1,000,000 users/km ²	~10,000,000 users/km ²
Bandwidth	~5 MHz	~20 MHz	~100 MHz
Energy Efficiency	Low	Medium	High
Reliability	Low	Medium	High
Security	Low	Medium	High
Network Slicing	No	Yes	Yes
AI/ML Support	No	Yes	Yes
Edge Computing	No	Yes	Yes
Network Virtualization	No	Yes	Yes
Network Automation	No	Yes	Yes
Network Resilience	Low	Medium	High
Network Scalability	Low	Medium	High
Network Flexibility	Low	Medium	High
Network Interoperability	Low	Medium	High
Network Security	Low	Medium	High
Network Reliability	Low	Medium	High
Network Availability	Low	Medium	High
Network Performance	Low	Medium	High
Network Efficiency	Low	Medium	High
Network Cost	Low	Medium	High
Network Energy Consumption	Low	Medium	High
Network Environmental Impact	Low	Medium	High
Network Social Impact	Low	Medium	High
Network Economic Impact	Low	Medium	High
Network Political Impact	Low	Medium	High
Network Cultural Impact	Low	Medium	High
Network Legal Impact	Low	Medium	High
Network Ethical Impact	Low	Medium	High
Network Moral Impact	Low	Medium	High
Network Religious Impact	Low	Medium	High
Network Philosophical Impact	Low	Medium	High
Network Scientific Impact	Low	Medium	High
Network Technological Impact	Low	Medium	High
Network Artistic Impact	Low	Medium	High
Network Literary Impact	Low	Medium	High
Network Musical Impact	Low	Medium	High
Network Dramatic Impact	Low	Medium	High
Network Cinematic Impact	Low	Medium	High
Network Televisual Impact	Low	Medium	High
Network Radio Impact	Low	Medium	High
Network Print Impact	Low	Medium	High
Network Publishing Impact	Low	Medium	High
Network Journalism Impact	Low	Medium	High
Network Education Impact	Low	Medium	High
Network Research Impact	Low	Medium	High
Network Innovation Impact	Low	Medium	High
Network Creativity Impact	Low	Medium	High
Network Imagination Impact	Low	Medium	High
Network Inspiration Impact	Low	Medium	High
Network Motivation Impact	Low	Medium	High
Network Determination Impact	Low	Medium	High
Network Persistence Impact	Low	Medium	High
Network Perseverance Impact	Low	Medium	High
Network Resilience Impact	Low	Medium	High
Network Adaptability Impact	Low	Medium	High
Network Flexibility Impact	Low	Medium	High
Network Agility Impact	Low	Medium	High
Network Quickness Impact	Low	Medium	High
Network Promptness Impact	Low	Medium	High
Network Timeliness Impact	Low	Medium	High
Network Accuracy Impact	Low	Medium	High
Network Precision Impact	Low	Medium	High
Network Exactness Impact	Low	Medium	High
Network Rightness Impact	Low	Medium	High
Network Appropriateness Impact	Low	Medium	High
Network Suitability Impact	Low	Medium	High
Network Feasibility Impact	Low	Medium	High
Network Possibility Impact	Low	Medium	High
Network Probability Impact	Low	Medium	High
Network Likelihood Impact	Low	Medium	High
Network Potential Impact	Low	Medium	High
Network Capacity Impact	Low	Medium	High
Network Capability Impact	Low	Medium	High
Network Ability Impact	Low	Medium	High
Network Power Impact	Low	Medium	High
Network Strength Impact	Low	Medium	High
Network Influence Impact	Low	Medium	High
Network Effectiveness Impact	Low	Medium	High
Network Productivity Impact	Low	Medium	High
Network Efficiency Impact	Low	Medium	High
Network Effectiveness Impact	Low	Medium	High
Network Reliability Impact	Low	Medium	High
Network Availability Impact	Low	Medium	High
Network Performance Impact	Low	Medium	High
Network Efficiency Impact	Low	Medium	High
Network Cost Impact	Low	Medium	High
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Network Capability Impact	Low	Medium	High
Network Ability Impact	Low	Medium	High
Network Power Impact	Low	Medium	High
Network Strength Impact	Low	Medium	High
Network Influence Impact	Low	Medium	High
Network Effectiveness Impact	Low	Medium	High
Network Productivity Impact	Low	Medium	High
Network Efficiency Impact	Low	Medium	High

Key concepts

- Real wireless world with no more limitations with access to more users
- Wearable devices
- IPv6, where a single core of mobile IP address is assigned according to location & connected network
- One unified global standard
- Smart Cities
- The user can seamlessly be connected with several wireless access technology
- Multiple concurrent data transfer path

Basic Architecture of 5G

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9/9/2019

Advantages of 5G

- Data BW of 1 Gbps or higher
- Globally accessible
- Dynamic information access
- Available at low cost



Applications of 5G

- Wearable devices with AI (Artificial Intelligence) capabilities
- Persistent (Global) networks
- Media independent base station
- Radio resource management
- VoIP (Voice over IP) enabled devices
- With 0th order technology

Conclusion

- 5G- Operator Centric,
- 4G- Service Centric whereas
- 5G- User Centric
- We have proposed 5G wireless concept designed as an open platform on different layers
- The new core 5G technology will be available in the market at affordable rates, high peak future & much reliability than preceding technologies

References

- www.5gwg.com
- www.5gwg.com
- Google.com
- Wikipedia.org

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BEST PRACTICE 2

NEWS PAPER READING HOUR

M.A.M. SCHOOL OF ENGINEERING
SIRUGANUR, TIRUCHIRAPPALLI - 621105
ACADEMIC YEAR 2016 - 2017 (Even)
CLASS TIME TABLE

DEPARTMENT: ECE SEMESTER: VIII HALL NO: AB-312

DAY \ HOUR	1		2		3		4		5		6		7		8		9	
	I	EC6019	EC6802	TEA BREAK	EC6802	EC6019	GD	LUNCH BREAK	News reading	PROJEC T	TEA BREAK	PROJECT	PROJECT					
II	MG6071	PROJECT	EC6802		PROJECT	EC6801	News reading		EC6801	MG6071		EC6019						
III	EC6801	EC6019	PROJECT		EC6801	MG6071	News Reading		EC6802	Student Seminar								
IV	MG6071	MG6071	EC6802		PROJECT	EC6802	LRT		News Reading	PROJECT		PROJECT						
V	EC6019	MG6071	EC6019		VR	PROJEC T	News Reading		EC6801	EC6801		PROJECT						

	SUB. CODE	NAME OF THE SUBJECT	DETAILS					NAME OF THE FACULTY	DEPT
			L	T	P	C	TOT		
THEORY	EC6801	Wireless Communication	3	0	0	3	6	Mrs.P.Nithila	ECE
	EC6802	Wireless networks	3	0	0	3	6	Mrs.P.Sudha	ECE
	MG6071	Entrepreneurship development	3	0	0	3	6	Mr.V.M.Sriram	ECE
	EC6019	Adhoc and sensor networks	3	0	0	3	6	M.Chandrasekar	ECE
LAB	EC6811	Project work	0	0	12	6	Mrs.P.Sudha	ECE	

Class Coordinator
Ms.Banupriya

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CONVENOR TIME TABLE COMMITTEE

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SIRUGANUR, TIRUCHIRAPPALLI - 621105											
ACADEMIC YEAR 2017 - 2018(Odd)											
CLASS TIME TABLE											
SEMESTER: V											
DEPARTMENT: ECE											
HALL NO: AB 213											
DAY \ HOUR	1 8.45-9.35	2 9.35-10.25	10.25-10.40	3 10.40-11.30	4 11.30-12.20	12.20-01.10	5 01.10-02.00	6 02.00-02.50	02.50-03.00	03.00-03.45	03.45-4.30
I	GE6351	Library	TEA BREAK	NPTEL	EC6503	LUNCH BREAK	EC6502	NR	TEA BREAK	Green Club	Green Club
II	EC6503	NR		EC6504	EC6501		EC6502	NR		EC6502	NPTEL
III	EC6502	NPTEL		EC6501	NR		EC6351	EC6513		EC6511	NPTEL
IV	EC6501	EC6502		EC6504	GE6351		NR	EC6511		EC6512	EC6512
V	GE6351	EC6503		EC6502	EC6504		NR	EC6512			
VI	EC6501	NR		EC6504	EC6502		T&P	EC6503		NPTEL	

SUB. CODE	NAME OF THE SUBJECT	TOTAL HOURS	DETAILS				NAME OF THE FACULTY	DEPT	Extra hours
			L	T	P	C			
EC6501	Digital Communication	4	3	0	0	3	Mr.M.Chandrasekar	ECE	I → NPTEL - P.Sudha
EC6502	Principles of Digital Signal Processing	6	3	1	0	4	Mr.N.Logeshkumar	ECE	I → NR - P.Nithila - Chandramohanambal I → GC - P.Nithila - Logeshkumar
EC6503	Transmission Lines and Wave	6	3	1	0	4	Mrs.P.Nithila	ECE	II → NR - V.M.Sriram - Rama ganeshbabu II → GC - N.Logeshkumar
GE6351	Environmental Science and Engineering	4	3	0	0	3	New Staff	ECE	III → NPTEL - N.Logeshkumar
EC6504	Microprocessor and Microcontroller	4	3	0	0	3	Mrs.P.Sudha	ECE	III → NPTEL - N.Logeshkumar III → NR - V.M.Sriram - G.Saranya suresh
EC6511	Digital Signal Processing	3	0	0	3	2	Mrs.P.Nithila	ECE	IV → NR - N.Logeshkumar - PS.Ramesh
EC6512	Communication System	3	0	0	3	2	Mr.M.Chandrasekar	ECE	V → NR - V.M.Sriram - ARG.Premkumar
EC6513	Microprocessor and Microcontroller Laboratory	3	0	0	3	2	Mrs.P.Sudha	ECE	VI → 3 rd NPTEL - P.Sudha VI → 8 th NPTEL - Chandrasekar VI → T&P - Kalaprasadee

Class Coordinator - Mrs.P.Sudha

D & IP Coordinator - Mr.M.Chandrasekar

CONVENOR TIME TABLE COMMITTEE: *[Signature]* 20/16/17

HOD: *[Signature]*

IO: *[Signature]*

PRINCIPAL: *[Signature]*

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NEWS PAPER READING HOUR



DEPARTMENT: ECE SEMESTER: V REV: 1 HALL NO: AB-213

TIME	1	2	3	4	5	6	7	8		
DAY	08.45 a.m. To 09.35 a.m.	09.35 a.m. To 10.25 a.m.	10.25 a.m. To 11.15 a.m.	11.15 a.m. To 11.30 a.m.	11.30 a.m. To 12.20 p.m.	12.20 P.m. To 1.10 p.m.	01.10 p.m. To 2.00 p.m.	02.00 p.m. To 02.50 p.m.	03.00 p.m. To 03.40 p.m.	03.40 p.m. To 04.30 p.m.
I	DSP	MPMC	MPMC (TEST)	TEA BREAK	EVS	TLW	LUNCH BREAK	NR	VAC	VAC
II	MPMC	DC	EVS		TLW	DSP (Test)		NR	MPMC LAB	
III	EVS	TLW	DSP		DC	DC (TEST)		NR	Communication System Lab	
IV	MPMC	DSP	TLW		EVS	DC		NR	DSP Lab	
V	TLW	DC	MPMC		DSP	VAC		NR	TLWG (TEST)	DSP

	SUB. CODE	NAME OF THE SUBJECT	DETAILS					NAME OF THE FACULTY	DEPT
			TOTAL HRS	L	T	P	C		
THEORY	EC6501	Digital Communication	5	3	0	0	3	Mr. T. Ashok	ECE
	EC6502	Principles of Digital Signal Processing	6	3	1	0	4	Mrs.V.Durga devi	ECE
	EC6503	Transmission Lines and Waveguides	6	3	1	0	4	Mr. M. Chandrasekar	ECE
	GE6351	Environmental Science and Engg.	4	3	0	0	3	Dr.P.Lilly Florence	Chem.
	EC6504	Microprocessor and Microcontroller	5	3	0	0	3	Ms.P.Sudha	ECE
LAB	EC6511	Digital Signal Processing Lab	2	0	0	3	2	Mrs.V.Durga devi	ECE
	EC6512	Communication System Lab	2	0	0	3	2	Mr. T. Ashok	ECE
	EC6513	Microprocessor & Microcontroller Lab	2	0	0	3	2	Ms.P.Sudha	ECE

Class Coordinator:
Ms. P. Sudha
IPT & IV Coordinator:
Mr. M. Chandrasekar
T&P Coordinator:
Mrs. V. Durga devi
NEWS PAPER READING
DAY 1: V. Durga devi
DAY 2: K. Umerani
DAY 3: Jayarani (Aero)
DAY 4: P. Sudha
DAY 5: Mrs. V. Durga devi
Value Added Course:
DAY 1: V. Durgadevi
DAY 5: K. Kanthikeyan

CONVENOR (Time Table Committee)

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10/5/18

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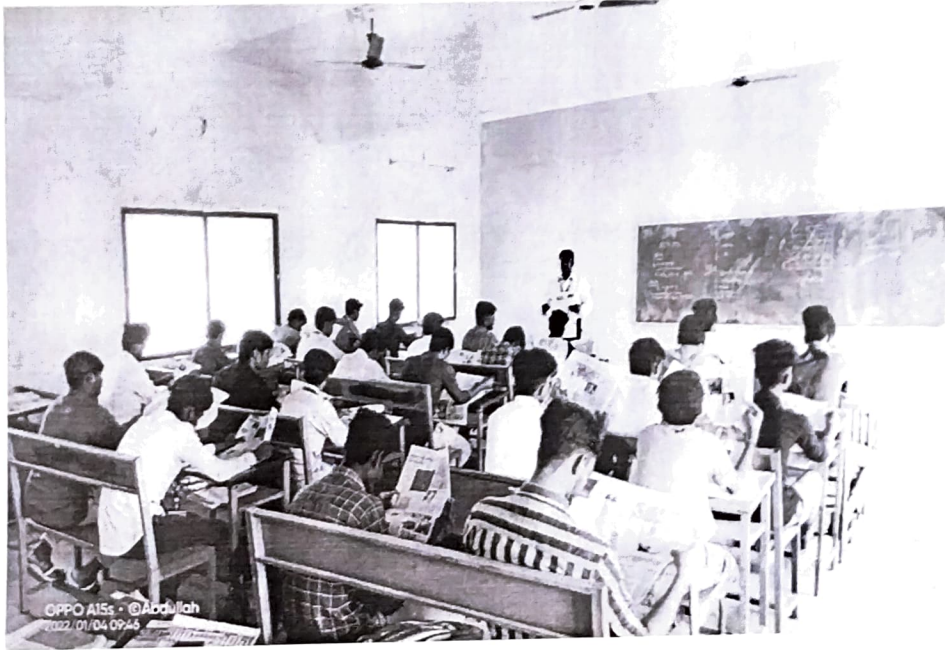
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