



# SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate, Tirupur 638056

# **NAAC DOCUMENTS**

# **QUALITY INDICATOR FRAME WORK**

CRITERION - 1

# **CURRICULAR ASPECTS**

SUBMITTED BY



INTERNAL QUALITY ASSURANCE CELL

# SASURIE COLLEGE OF ENGINEERING





### 1.2 AcademicFlexibility(30)

1.2.1 Number of Value Added/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

#### **AND**

1.2.2 Percentage of students enrolled in Value Added/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

VAC Title:	5G a	nd Bey	ond: Next	-Generation	ı Wire	eless T	echnologies									
Resource Pe	rson:	Trainer Scientr	•		Sree Venkatesan, Manager, Scientronics, Coimbatore-641004											
Date of cond	luct fi	rom:	24.06.20	19	To:	28.06.2019 <b>Duration:</b> 30Hours										
Organized I	epar	tment:	ELECT	RONICS A	ND CC	MMU	JNICATIO	N ENGINER	ERIN	G						
Participant Year:	2/3/4		O	ODD No. of Students Registered: 67												
Venue: Le	cture	hall of	II & III y	year ECE		Venue: Lecture hall of II & III year ECE										

#### TABLE OF CONTENT

	DOCUMENT	PAGE-NO
SNO		
1	Value Added Course Circular	3-3
2	Value Added Course Schedule	4-4
3	List of students participants	5-7
4	Attendance of Students	8-11
5	Value Added Course Report	12-12
6	Value Added Course Completion Certificates	13-18
7	Value Added Course Test Paper	19-22
8	Value Added Course Answer Key	23-23
9	Value Added Course Test Answer Sheet-Sample	24-27
10	Value Added Course Mark Statement	28-31



Ref: SCE / ECE/Students / VAC / 2019 – 2020 / ODD

17.06.2019

## **CIRCULAR**

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Electronics and Communication Engineering and IQAC of our Institution in association with Scientronics, is organizing a Value Added Course (VAC) for the students of II, III and IV year of ECE on the title "5G and Beyond: Next-Generation Wireless Technologies" from 24.06.2019 to 28.06.2019. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

• Students, who are securing more than 70% on total score in the VAC test and secured more than 75% in VAC attendance is eligible to receive the course completion certificate for the VAC attended.

Resource Person	Mr.Angelos Sapetsas, Trainer,	Sree Venkatesan, Manager,
Details	Scientronics, Coimbatore-641004	Scientronics, Coimbatore-641004
Venue	Lecture hall of II & III year EC	

HoD/ECE

T. S.

#### Copy to:

- 1. Chairman & Secretary for information
- 2. Principal office
- 3. IQAC Co-Ordinator
- 4. Class In charges II, III & IV-Year ECE
- 5. II, III & IV-Year ECE Students
- 6. ECE Notice Board
- 7. Department File

Dr.M.VIJAYAKUMAR ME., Ph.D.
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 055, Tirupur (Dt).



Ref: SCE / ECE/Students / VAC / 2019 - 2020 / ODD

17.06.2019

# SYLLABUS - VALUE ADDED COURSE

"5G and Beyond: Next-Generation Wireless Technologies"

From 24.06.2019 to 28.06.2019 (5 days)

**Duration: 30 Hours** 

Academic Year : 2019 -2020 / ODD

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to 5G Technology	3	24.06.2019
2	5G Architecture and Components	3	24.06.2019
3	5G Spectrum and Frequency Bands	3	25.06.2019
4	Internet of Things (IoT) and 5G	3	25.06.2019
5	Edge Computing and 5G	3	26.06.2019
6	Network Slicing	3	26.06.2019
7	Security and Privacy in 5G	3	27.06.2019
8	Beyond 5G Technologies	3	27.06.2019
9	AI and Machine Learning in 5G Networks	3	28.06.2019
10	Global Deployment and Regulatory Considerations	3	28.06.2019
	Total Hours	30	

After successful completion of 30 Hours VAC, the assessment test for the VAC titled "5G and Beyond: Next-Generation Wireless Technologies" will be conducted on 28.06.2019.

VAC Coordinator

HoD/ECE

Dr.M. VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING,

Vijayamangalam - 638 056, Tirupur (Dt).



# STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

"5G and Beyond: Next-Generation Wireless Technologies"

From 24.06.2019 to 28.06.2019 (5 days)

**Duration: 30 Hours** 

Academic Year : 2019 -2020 / ODD

S.No.	Reg No.	Name of the Student	Year / Branch
1:	732418106004	SABITHA A	II/ECE
2.	732418106005	SUJITHRA P	II/ECE
3.	732417106002	AJITHKUMAR K	III/ECE
4.	732417106003	AJITHKUMAR S	III/ECE
5.	732417106005	ARAVIND V	III/ECE
6.	732417106008	GOKILAVANI M	III/ECE
7.	732417106010	JAYASEELAN B	III/ECE
8.	732417106011	KAYALVIZHI K	III/ECE
9.	732417106013	KOUSALYA DEVI R	III/ECE
10.	732417106016	NASREEN BANU J	III/ECE
11.	732417106017	NATESH R	III/ECE
12.	732417106018	NIMISHA M .	III/ECE
13.	732417106019	NISHANTH S	III/ECE
14.	732417106020	NITHYANANTHAM N	III/ECE
15.	732417106021	PARTHIPAN S	III/ECE
16.	732417106023	RANJANI S	III/ECE
17.	732417106024	SANTHIYA R	III/ECE
18.	732417106027	SHANMUGAPRIYA S	III/ECE
19.	732417106028	SHARMILA M	III/ECE
20.	732417106030	THANGA RATHINAM A	III/ECE
21.	732417106031	VEERA SOWNDARIYA P	III/ECE
22.	732417106033	VINITHA B	III/ECE
23.	732417106501	ARTHI K	III/ECE
24.	732417106701	PRATHEEPA S	III/ECE
25.	732417106702	SELVARANI C	III/ECE
26.	732417106703	KANAGARAJ B	III/ECE
27.	732417106704	POOVIZHI R	III/ECE
28.	732417106705	PRIYADHARSHINI S	III/ECE
29.	732417106706	HEMAPRAKASH C	III/ECE
30.	732416106001	AARTHY C	IV/ECE



# STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

S.No.	Reg No.	Name of the Student	Year / Branch
31.	732416106002	ABISH A	IV/ECE
32.	732416106004	ANJALI A	IV/ECE
33.	732416106006	BALA MANJULA DEVI R	IV/ECE
34.	732416106008	DEEPIKA K	IV/ECE
35.	732416106009	DHARANI R	IV/ECE
36.	732416106011	ELAVARASAN R	IV/ECE
37.	732416106013	JANANI S	IV/ECE
38.	732416106014	JEEVITHA S	IV/ECE
39.	732416106015	KARTHI A	IV/ECE
40.	732416106016	KAVIAMATIII T	IV/ECE
41.	732416106017	KAVIYARASU R	IV/ECE
42.	732416106018	KEERTHANA PRIYA R	IV/ECE
43.	732416106019	MALATHI S	IV/ECE
41.	732416106020	MANIKANDAN N	IV/ECE
45.	732416106021	MOHANLAL M	IV/ECE
46.	732416106022	MOUNIKA S	IV/ECE
47.	732416106023	MUTHAMIL SELVAN V	IV/ECE
48.	732416106024	NANDHAKUMARAN S	IV/ECE
49.	732416106025	NAVEENKUMAR C	IV/ECE
50.	732416106026	NIVITHA M	IV/ECE
51.	732416106028	PRADEEPA R K	IV/ECE
52.	732416106029	PRAKASHKUMAR M	IV/ECE
53.	732416106030	SANKAR M	IV/ECE
54.	732416106031	SANTHIYA R	IV/ECE
55.	732416106032	SANTHOSHKUMAR C	IV/ECE
56.	732416106033	SARAN P	IV/ECE
57.	732416106034	SARAVANAN R	IV/ECE
58.	732416106035	SHARATH CHANDRAS V	IV/ECE
59.	732416106036	SHRUTHI R	IV/ECE
60.	732416106037	SINDHIKA R	IV/ECE
61.	732416106038	SOWNDARYA N	IV/ECE
62.	732416106039	SURESH KUMAR S	IV/ECE
63.	732416106040	SWETHA S V	IV/ECE
64.	732416106041	VASANTHAMANI P	IV/ECE
65.	732416106042	VENGADESAN P	IV/ECE

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 635 056, Tirupur (Dt).



# STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

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S.No.	Reg No.		Year /
and the transfer that	a destruction of the second	Name of the Student	Branch
66,	732416106043	YASODIIA S	IV/ECE
67.	732416106044	The same and the s	AND AND PROPERTY OF THE PROPERTY OF THE PARTY OF THE PART
control Milmorran	752-710100044	YUVARAJV	IV/ECE

N. duj Pouthi **VAC** Coordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEER (1.0),
Vijayamangalam - 638 056, Tirupur (Dq.



### STUDENTS ATTENDANCE LIST - VALUE ADDED COURSE

"5G and Beyond: Next-Generation Wireless Technologies"

From 24.06.2019 to 28.06.2019 (5 days)

Duration: 30 Hours

Academic Year: 2019 -2020/ ODD

S.No	Reg No.	Name of the Student	Year/ Branch 24.06.2019 25.06.2019 26.06.2019	27.0	6.2019	28.00	8.06.2019 No. of Hours		Signature of the						
	1		branch	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	Attended	Student
1.	732418106004	SABITHA A	II/ECE	1	1	1	1	1	1	1	1	1	1	30	Softe. A
2.	732418106005	SUJITHRA P	II/ECE	1	1.	1	A	1	1	1	1	1	1	27	o Single
3.	732417106002	AJITHKUMAR K	III/ECE	1	1	1	1	A	A	1	1	1	1	24	ASC H.
4.	732417106003	AJITHKUMAR S	III/ECE	1	1.	1	1	1	./	1	1	1	1	30	SAZI
5.	732417106005	ARAVIND V	ПИЕСЕ	1	1	1	1	A	Д	1	1	1	/	24	V. 60
6.	732417106008	GOKILAVANI M	III/ECE	1	1	1	1	1	1	1	1	1	,	30	Corkie Jani
7.	732417106010	JAYASEELAN B	III/ECE	1	1	1	1	1	1	1	1	1	10	30	Jany
8.	732417106011	KAYALVIZHI K	III/ECE	1	1	1	1	1	1	1	1	1	1	30	K. Kanvier
9.	732417106013	KOUSALYA DEVI R	III/ECE	.1	1	1	A	1	1	1	1	1	1	27	1 . 0
10.	732417106016	NASREEN BANU J	ПИЕСЕ	/	/	1.	1	1	1	1	1	1	1	30	Augha . K.
11.	732417106017	NATESH R	III/ECE	/	1	A	A	1	1	1	1	1	1	24	No.
12.	732417106018	NIMISHA M	III/ECE	/	1	/	,	1	1	1	,	,	1	30	Nimitha
13.	732417106019	NISHANTH S	III/ECE	7	/	1	1	1	1	A	Д.	1	1	2410	NAT.

Dr.M.VIJAYAKUWAR ME., Ph.D.,
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Vijayamangalam - 638 056, Tirupur (Dr).



STUDENTS ATTENDANCE LIST - VALUE ADDED COURSE															
\$.No	Reg No.	Name of the Student	Year/ Branch	24.06.2019		25.06	.2019	26.00	5.2019	27.0	6.2019	28.06	.2019	No. of Hours	Signature of the
			Dranch	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	Attended	Student
14.	732417106020	NITHYANANTHAM N	III/ECE	1	1	A	1	1	1	1	1	1	,	2.7	Nuell
15.	732417106021	PARTHIPAN S	III/ECE	1	1	1	1	1	1	1	1	,	1	30	Pay
16.	732417106023	RANJANI S	III/ECE	1	1	A	A	1	1	1	1	,	1	21,	S. Ruiji
17.	732417106024	SANTHIYA R	III/ECE	1	1	1	1	A	1	/	1	,	,	27	e 111 D
18.	732417106027	SHANMUGAPRIYA S	III/ECE	1	1	1	,	1	1	1	1		,	30	and the state of t
19.	732417106028	SHARMILA M	III/ECE	1	1	1	1	A	1	1	,	,	,	27	110
20.	732417106030	THANGA RATHINAM A	III/ECE	1	1	,	,	,	,	1	,	1	,		M. Sary
21.	732417106031	VEERA SOWNDARIYA P	III/ECE	1	1	1	,	,	,	A	,	1	,	30 27	There and
22.	732417106033	VINITHA B	III/ECE	1	1	1	1	1	//	/	1	,	/	Control of the Parket of the P	Chendra
23.	732417106501	ARTHI K	III/ECE	1	1	A	A	1	-	1	/	1	,	-	3. Dr
24.	732417106701	PRATHEEPA S	IIVECE	1	1	1	1	1	1	1	A	1	/	24	r-Ami
25.	732417106702	SELVARANI C	III/ECE	1	1	1	1	1	1	1	1	1	,	30	Phatheres.
26.	732417106703	KANAGARAJ B	III/ECE	1	1	,	1	1	Δ	1	1	<u></u>	,	27	B. Kulkin
27.	732417106704	POOVIZHI R	III/ECE	1	1	1	i	1	1	1	/	1	/	30	R. Pong
28.	732417106705	PRIYADHARSHINI S	III/ECE	1	1	,	,	1:	1	1	A	1	1	27	10
29.	732417106706	HEMAPRAKASH C	III/ECE	1	1	1	1	1	//	1	1	/	1	30	Pru france
30.	732416106001	AARTHY C	IV/ECE	1	7	,	1	<u>'</u> ,	1	1	A	1	1	-	(Fler pokel.
31.	732416106002	ABISH A	IV/ECE	1	1	,	,	1	1	A	7	1	/	24	Arry
32.	732416106004	ANJALI A	IV/ECE	1	1	1	/	+	<u>'</u>	1	1	<del> </del>	/	30	1) Attal

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		STUDEN	S ATTE	NDAN	CE L	IST -	VAL	UE A	ADDE	DC	OURS	<u>E</u>			
S.No	Reg No.	Name of the Student	Year/			5.2019	No. of Hours	Signature of the Student							
3.140	neg ito.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Branch	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	Attended	
33.	732416106006	BALA MANJULA DEVIR	IV/ECE	11	1	1	/	/	1	A	7	1	1	27 (	Beulfa
34.	732416106008	DEEPIKA K	IV/ECE	1	1	1	1	1	1	1	1	1	1	30	Frunka.
35.	732416106009	DHARANI R	IV/ECE	1	11	1	1	A	А	1	1	1-	1	24	Phaoni
36.	732416106011	ELAVARASAN R	IV/ECE	1	1	1	1	1	A	1	1	1	1	27	Elwasa
37.	732416106013	JANANI S	IV/ECE	1	1	1	1	1	1	1	1	1	1	30	Fri. S
38.	732416106014	JEEVITHA S	IV/ECE	1	1	1	1	1	1	A	1	1	1	27	Trustha.
39.	732416106015	KARTHI A	IV/ECE	1	1	1	1	1	1	1	1	1	1	30	Kastei
40.	732416106016	KAVIAMATHI T	IV/ECE	/	1	1	1	: 1	1	1	1	1	1	30	T. Kanilletti
41.	732416106017	KAVIYARASU R	IV/ECE	1	1	1	1	1	1	A	1	1	1	27	Kay Desce
42.	732416106018	KEERTHANA PRIYA R	IV/ECE	1	1	1	1	1	1	1	1	1	1	30	Korel França
43.	732416106019	MALATHI S	IV/ECE	11	1	1	1	Α	A·	1	7	1	1	24	Matter
44.	732416106020	MANIKANDAN N	IV/ECE	1	/	1	1	. 1	A	1	1	1	1	27	Marikanan
45.	732416106021	MOHANLAL M .	IV/ECE	1	1	1	1	1	1	1	1	1	1	30	14ohn lal. H
46.	732416106022	MOUNIKA S	IV/ECE	1	/	1	1	1	A	1	1	1	1	27	Marika.
47.	732416106023	MUTHAMIL SELVAN V	IV/ECE	1		1	1	/	1	1	1	1	1	30	Quet
48.	732416106024	NANDHAKUMARAN S	IV/ECE	1	1	1	1	1	A	1	1	1	1	27	Dankung
49.	732416106025	NAVEENKUMAR C	IV/ECE	1	1	1	1	1	1	1	1	1	1	30	C. Northing
50.	732416106026	NIVITHA M	IV/ECE	1	1	1	1	1	1	A	1	1	1	27	Marth H
51.	732416106028	PRADEEPA R K	IV/ECE	1	1	1	1	1	1	,	,	1	1	30,00	nd_

Dr.M.VIJAYAKUMAR ME., Ph.O.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 636, Ticupur (Dd).



STUDENTS ATTENDANCE LIST - VALUE ADDED COURSE														
Rec No.	Name of the Student	Year/	24.00	5,2019	25.06	.2019	26.0	6.2019	27.0	5.2019	28.00	5.2019	No. of Hours	Signature of the Student
neg ivo.	tionic of the other	Branch	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	Attended	de la la la composition de la composition della
732416106029	PRAKASHKUMAR M	IV/ECE	1	1	1	A	1	1	1	1	1	1	27	Protections
732416106030	SANKAR M	IV/ECE	1	1	1	1	1	1	1	1	1	/	30	M. Champio
732416106031	SANTHIYA R	IV/ECE	1	1	1	A	A	1	1	1	1	1	24	-R. Forwthylog
732416106032	SANTHOSHKUMAR C	IV/ECE	1	1	1	1	A	1	1	1	1	1	27	Sithouter
732416106033	SARAN P	IV/ECE	1	1	1	1	1	1	1	1	1	1	30	K.S.A
732416106034	SARAVANAN R	IV/ECE	1	1	1	1	1	1	1	A	1	1	27	P
732416106035	SHARATH CHANDRAS V	IV/ECE	1	1	1	1	1	1	1	1	1	1	30	V. Found Chailon
732416106036	SHRUTHI R	IV/ECE	1	1	1	1	1	1	1	1	1	1	30	Roshith.
732416106037	SINDHIKA R	IV/ECE	1	1	1	1	1	A.	1	1	1	1	27	Sidial
732416106038	SOWNDARYA N	IV/ECE	1	1	1	1	1	1	1	1	1	1	30	Sourcea. D
732416106039	SURESH KUMAR S	IV/ECE	1	1	1	1	1	1	A	A	1	1	24 0	Surplus.
732416106040	SWETHA S V	IV/ECE	1	1	1	1	1	A	. 1	1	1	1	27	Sollan
732416106041	VASANTHAMANI P	IV/ECE	1	1	1	1.	1	1	1	1	1	/	36	Forward he mane
732416106042	VENGADESAN P	IV/ECE	/	/	1	1	/	A	1	1	1	/	27	Dangar Bay
732416106043	YASODHA S	IV/ECE	/	1	1	1	1	1	1	1	1	1	30 .	3 Jacobhan
732416106044	YUVARAJ V	IV/ECE	7	1	1	1	1	A	1	1	1	1	27	V. Yuvaray
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Vijayamangalam - 638 056, Tirupur (Dt).



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Organized by:  association with Scientronics  ELECTRONICS AND COMMUNICATION ENGINEERING  association with									IQAC in
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Dr.M.VIJAYAKUMAR .... 95-9.,
PRINCIPAL
COURTE COLLEGE OF En.
Vijnyamangalam - 639 050, Timpur (bil).



#### **Certificate of Participation**

This is to certify that	Mr./Ms SABITHA A,II/EC	has
successfully completed the	Value Added Course titled "5G and Beyond: Next-Course titled"	Generation Wireless Technologies"
Organized by the Departm	ent of Electronics and Communication Engineering in	association with IQAC of Sasurie
College of Engineering an	d Scientronics from 24-06-2019 to 28-06-2019 (5 Days)	
K. Big Readth	Head of the Department	7.3.~
17 000	Head of the Department	Principal

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SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



#### **Certificate of Participation**

This is to certify that Mr./Ms	SUJITHRA P,H/ECE	has
successfully completed the Value A	dded Course titled "5G and Beyond: Next-Ge	eneration Wireless Technologies"
Organized by the Department of El	ectronics and Communication Engineering in a	ssociation with IQAC of Sasurie
College of Engineering and Scienti	onics from 24-06-2019 to 28-06-2019 (5 Days).	
	Wood	7.5.n -
H. Dig Towathi	Head of the Department	Principal

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SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 633 056, Tirupur (Dt).



## **Certificate of Participation**

This is to certify that M	r./Ms ARAVIND V,III/EC	E has
successfully completed the	Value Added Course titled "5G and Beyond: Next-G	eneration Wireless Technologies"
Organized by the Departmen	nt of Electronics and Communication Engineering in	association with IQAC of Sasurie
College of Engineering and	Scientronics from 24-06-2019 to 28-06-2019 (5 Days).	
V. big Recarlli Co-ordinator	Doorn	7.1.~
Co-ordinator	Head of the Department	Principal

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PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 055, Tirupur (Dt).



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College of Engineering and Scientronics from 24-06-2019 to 28-06-2019 (5 Days).
Woodington Head of the Department Principal

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (DI).



## **Certificate of Participation**

This is to certify that Mr./Ms	DEEPIKA K,IV/ECE	has
successfully completed the Value	Added Course titled "5G and Beyond: Next-Gener	ation Wireless Technologies"
Organized by the Department of E	lectronics and Communication Engineering in assoc	iation with IQAC of Sasurie
College of Engineering and Scient	ronics from 24-06-2019 to 28-06-2019 (5 Days).	
W. Dy Rocothi Co-ordinator	Head of the Department	Principal

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).



## **Certificate of Participation**

This is to certify that Mr./M	S DHARANI R,IV/E	CE has
successfully completed the Value	Added Course titled "5G and Beyond: Next-C	Generation Wireless Technologies"
Organized by the Department of	Electronics and Communication Engineering in	association with IQAC of Sasurie
College of Engineering and Scien	stronics from 24-06-2019 to 28-06-2019 (5 Days).	
M. Dij Dowthi Co-ordinator	Head of the Department	T-S-
	read of the Department	Timeipai

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SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).



# TEST QUESTION PAPER - VALUE ADDED COURSE

"5G and Beyond: Next-Generation Wireless Technologies,"

From 24.06.2019 to 28.06.2019 (5 days)

Duration: 30 Hours

Academic Year : 2019 -2020 / ODD

Date of Test: 28.06.2019

## **MULTIPLE CHOICE QUESTIONS (25 X 1 = 25 Marks)**

Name of the Student:

Year/Sem:

AU Register Number:

Answer all the questions:

- 1. What is the primary focus of the course "5G and Beyond: Next-Generation Wireless Technologies"?
- a. 4G Technology
- b. Internet of Things (IoT)
- c. Artificial Intelligence
- d. Next-Generation Wireless Technologies
- 2. Which component is a part of the 5G core network architecture?
  - a. Massive MIMO
  - b. Small Cells
  - c. Radio Access Network (RAN)
  - d. Edge Computing
- 3. What is the significance of millimeter-wave spectrum in 5G?
  - a. Increased Coverage
  - b. Higher Data Rates
  - c. Lower Latency
  - d. Improved Security
- 4. How does 5G contribute to the Internet of Things (IoT)?
  - a. By reducing spectrum allocation
  - b. By enabling massive IoT connectivity
  - c. By limiting IoT applications
  - d. By decreasing network slicing

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Vijayamangolam - 538 058, Tirupur (Dt).



- 5. What technology is integrated with 5G networks to support real-time applications at the network edge?
  - a. Edge Computingb. Massive MIMO
  - c. Network Slicing
  - d. Holographic Communication
- 6. What is the concept of network slicing in 5G?
  - a. Allocating different frequency bands
  - b. Dividing the network into virtual networks
  - c. Implementing beamforming techniques
  - d. Enhancing security protocols
- 7. What is a major security challenge in 5G networks?
  - a. Reduced Latency
  - b. Network Slicing
  - c. Increased Bandwidth
  - d. Security Threats
- 8. What does the term "Beyond 5G" refer to?
  - a. Next-generation smartphones
  - b. Technologies emerging after 5G
  - c. 4G LTE advancements
  - d. Internet of Things (IoT) devices
- 9. How does AI contribute to 5G systems?
  - a. By decreasing network coverage
  - b. By increasing security vulnerabilities
  - c. By optimizing and automating networks
  - d. By limiting data rates
- 10. What is the global deployment status of 5G networks?
  - a. Limited to developed countries
  - b. Fully deployed in all regions
  - c. Still in the testing phase
  - d. Restricted to specific industries
- 11. Which technology is associated with terahertz communication in wireless networks?
  - a. Virtual Reality (VR)
  - b. Quantum Computing
  - c. Advanced Encryption Standard (AES)
  - d. Next-Generation Wireless Technologies
- 12. What is the primary goal of edge computing in 5G networks?
  - a. Increasing network latency
  - b. Reducing data processing at the edge
  - c. Enhancing real-time application support
  - d. Minimizing IoT connectivity





- 13 In the context of 5G, what does MIMO stand for?
  - a Mobile Internet Management and Optimization
  - b. Massive Internet of Things
  - c. Multiple Input, Multiple Output
  - d Microservices in Mobile Operations
- 14. What is the primary benefit of using network slicing in 5G?
  - a Reduced Spectrum Allocation
  - h. Increased Security Threats
  - c. Customization for Different Services
  - d Lower Data Rates
- 15. Which frequency bands are commonly associated with millimeter-wave spectrum in 5G?
  - a 600 MHz 1 GHz
  - b. 24 GHz 5 GHz
  - c. 24 GHz 100 GHz
  - d. 1.8 GHz 2.2 GHz
- 16. What is the primary advantage of using small cells in 5G networks?
  - a. Extended Coverage
  - b. Higher Data Rates
  - c. Lower Latency
  - d. Improved Network Slicing
- 17. How does 5G contribute to lower latency in wireless communication?
  - a. By using lower frequency bands
  - b. By deploying small cells
  - c. By implementing beamforming techniques
  - d. By reducing the signaling time
- 18. Which of the following is an example of an application that benefits from edge computing in a 5G network?
  - a. Email Communication
  - b. Virtual Reality Gaming
  - c. Text Messaging
  - d. Static Web Browsing
- 19. What role does spectrum allocation play in the performance of 5G networks?
  - a. It has no impact on network performance
  - b. It determines the coverage area
  - c. It influences data rates and capacity
  - d. It affects security protocols
- 20. What is the primary objective of implementing beamforming techniques in 5G?
  - a. Reducing network latency
  - b. Enhancing security protocols
  - c. Improving coverage and capacity
  - d. Limiting the use of network slicing

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- 21. What is the primary focus of regulatory considerations in 5G deployment?

  - b. Ensuring network slicing compatibility
  - c. Managing spectrum allocation
  - d. Minimizing the use of edge computing
- 22. How does holographic communication contribute to the future of wireless technologies?
  - a. By increasing latency
  - b. By enhancing security threats
  - c. By providing immersive communication experiences
  - d. By limiting network slicing capabilities
- 23. What is the main purpose of integrating AI and machine learning in 5G networks?
  - a. Increasing security vulnerabilities
  - b. Optimizing and automating network operations
  - c. Reducing the use of edge computing
  - d. Limiting the potential of IoT connectivity
- 24. Which technology is associated with holographic communication in wireless networks?
  - a. Virtual Reality (VR)
  - b. Augmented Reality (AR)
  - c. Quantum Computing
  - d. Network Slicing
- 25. What is the primary focus of 6G technology?
  - a. Improving 5G data rates
  - b. Enhancing security protocols
  - c. Enabling new communication paradigms
  - d. Reducing the deployment cost of 5G networks

Vijayamangalam - 633 058, Tirupur (Dt).





# TEST QUESTION ANSWER KEY - VALUE ADDED COURSE

"5G and Beyond: Next-Generation Wireless Technologies"

From 24.06.2019 to 28.06.2019 (5 days)

**Duration: 30 Hours** 

Academic Year : 2019 -2020 / ODD

Date of Test: 28.06.2019

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2	С	7	d	12	C	17	b	22	С
3	b	8	b	13	С	18	b	23	b
4	b	9	c	14	C	19	С	24	b
5	а	10	С	15	c	20	С	25	С

VAC Coordinator

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21 25

DEPARTMENT OF ELECTRONICS AND COMMUNIC ENGINEERING

# TEST QUESTION PAPER - VALUE ADDED COURSE

"5G and Beyond: Next-Generation Wireless Technologies"

From 24.06.2019 to 28.06.2019 (5 days)

Duration: 30 Hours

Academic Year: 2019 -2020 / ODD

Date of Test: 28.06.2019

## MULTIPLE CHOICE QUESTIONS (25 X 1 = 25 Marks)

Name of the Student: AJITHKUMAR.K.

Year/Seni: III / V

AU Register Number: 732417106002

#### Answer all the questions:

- 1. What is the primary focus of the course "5G and Beyond: Next-Generation Wireless Technologies"?
  - a. 4G Technology
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- 4. How does 5G contribute to the Internet of Things (IoT)?
  - a. By reducing spectrum allocation
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- A By limiting IoT applications
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- 5 What were dogs is unegrated with 5G networks to support realand one at the network edge
  - h Mourice MANO
  - . Namest Shome
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- 21. What is the primary focus of regulatory considerations in 5G deployment
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## ASSESMENT SHEET - VALUE ADDED COURSE

"5G and Beyond: Next-Generation Wireless Technologies"

From 24.06.2019 to 28.06.2019 (5 days)

Duration: 30 Hours

Academic Year: 2019 -2020/ ODD

	Reg No.	Name of the Student	Year/ Branch	Attenda	nce Details	VAC-MO	OVERALL Score	
S.No				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	(100) (50% of A + 50% of B)
1.	732418106004	SABITHA A	II/ECE	30	100	19	76	88
2.	732418106005	SUJITHRA P	II/ECE	27	90	19	76	83
3.	732417106002	AJITHKUMAR K	III/ECE	24	80	21	84	82
4.	732417106003	AJITHKUMAR S	III/ECE	30	100	18	72	86
5.	732417106005	ARAVIND V	III/ECE	24	80	20	80	80
6.	732417106008	GOKILAVANI M	III/ECE	30	100	19	76	88
7.	732417106010	JAYASEELAN B	III/ECE	30	100	19	76	88
8.	732417106011	KAYALVIZHI K	III/ECE	30	100	- 18	72	86
9.	732417106013	KOUSALYA DEVI R	III/ECE	27	90	19	76	83
10.	732417106016	NASREEN BANU J	III/ECE	30	100	19	76	88
11.	732417106017	NATESH R	III/ECE	24	80	20	80	80.
12.	732417106018	NIMISHA M	III/ECE	30	100	19	76	88
13.	732417106019	NISHANTH S	III/ECE	24	80	21	84	\$2

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### ASSESMENT SHEET - VALUE ADDED COURSE

		Name of the Student		Attenda	nce Details	VAC-MCQ TEST		OVERALL
S.No	Reg No.		Year/ Branch	No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	(100) (50% of A + 50% of B)
14.	732417106020	NITHYANANTHAM N	III/ECE	27	90	19	76	83
15.	732417106021	PARTHIPAN S	III/ECE	30	100	20	80	90
16.	732417106023	RANJANI S	III/ECE	24	80	21	84	82
17.	732417106024	SANTHIYA R	III/ECE	27	90	18	72	81
18.	732417106027	SHANMUGAPRIYA S	III/ECE	30	100	21	84	
19.	732417106028	SHARMILA M	III/ECE	27	90	19	76	92
20.	732417106030	THANGA RATHINAM A	III/ECE	30	100	19		83
21.	732417106031	VEERA SOWNDARIYA P	III/ECE	27	90	19	76	88
22.	732417106033	VINITHAB	III/ECE	30	100		76	83
23.	732417106501	ARTHI K	III/ECE	24	80	20	80	90
24.	732417106701	PRATHEEPA S	III/ECE	27		21	84	82
25.	732417106702	SELVARANIC	IIL/ECE		90	18	72	81
26.	732417106703	KANAGARAJ B	III/ECE	30	100	21	84	92
27.	732417106704	POOVIZHI R	III/ECE	27	90	19	76	83
28.	732417106705	PRIYADHARSHINI S		30	100	19	76	88
29.	732417106706	HEMAPRAKASH C	IILECE	27	90	. 19	76	83
0.	732416106001	AARTHY C	III/ECE	30	100	20	80	90
-	-		IV/ECE	24	80	21	84	82
11.	the state of the s	ABISH A	IV/ECE	30	100	21		
2.	732416106004	ANJALI A	IV/ECE	30	100	21	84	92

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#### ASSESMENT SHEET - VALUE ADDED COURSE

				Attenda	nce Details	VAC-MCQ TEST		OVERALL
S.No	Reg No.	Name of the Student	Year/ Branch	No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	Score (190) (50% of A + 50% of B)
33.	732416106006	BALA MANJULA DEVI R	IV/ECE	27	90	19	76	83
34.	732416106008	DEEPIKA K	IV/ECE	30	100	20	80	90
35.	732416106009	DHARANI R	IV/ECE	24	80	21	84	82
36.	732416106011	ELAVARASAN R	IV/ECE	27	90	18	72	81
37.	732416106013	JANANI S	IV/ECE	30	100	21	84	92
38.	732416106014	JEEVITHA S	IV/ECE	27	90	19	76	83
39.	732416106015	KARTHI A	IV/ECE	30	100	19	76	88
40.	732416106016	KAVIAMATHI T	IV/ECE	30	100	21	84	92
41.	732416106017	KAVIYARASU R	IV/ECE	27	90	19	76	83
42.	732416106018	KEERTHANA PRIYA R	IV/ECE	30	100	20	80	90
43.	732416106019	MALATHI S	IV/ECE	24	, 80	21	84	82
44.	732416106020	MANIKANDAN N	IV/ECE	27	90	18	72	81
45.	732416106021	MOHANLAL M	IV/ECE	30	100	21	84	92
46.	732416106022	MOUNIKA S	IV/ECE	27	90	19	76	83
47.	732416106023	MUTHAMIL SELVAN V	IV/ECE	30	100	19	76	88
48.	732416106024	NANDHAKUMARAN S	IV/ECE	27	90	19	76	83
49.	732416106025	NAVEENKUMAR C	IV/ECE	30	100	20	80	90
50.	732416106026	NIVITHA M	IV/ECE	27	90	19	76	83
51.	732416106028	PRADEEPA R K	IV/ECE	30	100	20	80	90

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#### ASSESMENT SHEET - VALUE ADDED COURSE

	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MC	Q TEST	OVERALL
S.No				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	Score (100) (50% of A + 50% of B)
52.	732416106029	PRAKASHKUMAR M	IV/ECE	27	90	19	76	83
53.	732416106030	SANKAR M	IV/ECE	30	100	20	80	90
54.	732416106031	SANTHIYA R	IV/ECE	24	80	21	84	82
55.	732416106032	SANTIJOSHKUMAR C	IV/ECE	27	90	18	72	81
56.	732416106033	SARAN P	IV/ECE	30	100	21	84	92
57.	732416106034	SARAVANAN R	IV/ECE	27	90	19	76	83
58.	732416106035	SHARATH CHANDRAS V	IV/ECE	30	100	19	76	88
59.	732416106036	SHRUTHI R	IV/ECE	30	100	21	84	92
60.	732416106037	SINDHIKA R	IV/ECE	27	90	19	76	83
61.	732416106038	SOWNDARYA N	IV/ECE	30	100	20	80	90
62.	732416106039	SURESH KUMAR S	IV/ECE	24	80	21	84	82
63.	732416106040	SWETHA S V	IV/ECE	27	90	18	72	81
64.	732416106041	VASANTHAMANI P	IV/ECE	30	100	21	84	92
65.	732416106042	VENGADESAN P	IV/ECE	27	90	19	76	83
66,	732416106043	YASODIIA S	IV/ECE	30	100	19	76	88
67.	732416106044	YUVARAJV	IV/ECE	27	90	19	76	83

HOD/ECE

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