

Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL INDRA GANESAN COLLEGE OF ENGINEERING





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2019-2020 / EVEN SEMESTER

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/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 Certificate/ 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:	AGU	MENT	ΓED REALI	ITY AI	ND VI	RTUAL REA	LIT	Y		
Resource Per	rson:	Proje	Sankari, ect Manager Technologi		mbako	onam				
Date of cond	uct fro	m:	22.06.2020		To:	26.06.2020		Duration:	30 Hours	
Organized D	epartn	nent:	COMPUT	ER SC	EIENC	E AND ENG	INEF	ERING		
Participant Y	Year:		IV, III, II, M.E-II	Seme	ster:	EVEN	No.	of Students	Registered:	99
Venue: or	line m	ode G	oogle Meet:	meet.g	google.	com/22.06.20	20 to	26.06.2020		

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Department of Computer Science & Engineering

Academic Year 2019-2020 - Even Semester

20.06.2020

DEPARTMENT CIRCULAR

Department of Computer Science and Engineering and IQAC of IGCE in association with FLINK TECHNOLOGIES, is going to organize Value Added Course for II, III, IV and II M.E (CSE) on "AGUMENTED REALITY AND VIRTUAL REALITY" from 22.06.2020 to 26.06.2020. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus

> Resource Person

MRS.SANKARI PROJECT MANAGER FLINK TECHNOLOGY KUMBAKONAM

Venue

Google Meet

Cc:

- Principal Table
- IQAC Co-Ordinator
- HoD/CSE
- Class In charges II,III, IV-Year and PG II Year
- II,III ,IV-Year and PG II Year CSE Students
- · Office File
- NoticeBoard

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Value Added Course

AGUMENTED REALITY AND VIRTUAL REALITY

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to AR and VR	3	22.06.2020
2	Hardware and Devices	3	22.06.2020
3	Software and Development Tools	3	23.06.2020
4	Augmented Reality (AR)	3	23.06.2020
5	Virtual Reality (VR)	3	24.06.2020
6	Interaction Design and User Experience	3	24.06.2020
7	Applications of AR and VR	3	25.06.2020
8	Social and Ethical Implications	3	25.06.2020
9	Future Trends and Emerging Technologies	3	26.06.2020
10	Industry and market outlook	3	26.06.2020
11	Exam	1	26.06.2020
	Total Hours(Excluding Exam)	30	matech hidu mienisteh kilikin sava аламанун жылуу түүтүү түүлүү үүү үүү

VAC Coordinator

1 ()

Hod/CSE



VALUE ADDED COURSE

AGUMENTED REALITY AND VIRTUAL REALITY

STUDENTS PARTICIPATION LIST

S.NO		STUDENT'S NAME	YEAR/ BRANCH
1	811218104001	AISHWARYA M	II CSE
2	811218104002	AJITH KUMAR R	II CSE
3	811218104003	ARAVINDH SAMY P	II CSE
4	811218104004	ARJUN V	II CSE
5	811218104005	DHARSHINI A	II CSE
6	811218104006	DINESH KUMAR K	II CSE
7	811218104007	GOWTHAM K	II CSE
8	811218104008	HARIHARAN N	II CSE
9	811218104009	HEMA LATHA B	II CSE
10	811218104010	JEGATHISWARI D	II CSE
11	811218104011	JOSHI DAYANA K	II CSE
12	811218104012	KANAGARAJ K S	II CSE
13	811218104013	KIRUTHIGA V	II CSE
14	811218104014	MADHAVAN S	II CSE
15	811218104015	MAHENDRAN S	II CSE
16	811218104017	MUTHAIYA P	II CSE
17	811218104018	NEETHIMOZHI A	II CSE
18	811218104019	NITHYA P	II CSE
19	811218104020	NIVEDHA S	II CSE
20	811218104021	PRIYANGA G	II CSE
21	811218104022	RAMYA R	II CSE
22	811218104023	SHARVESH CHARAN.S.A	II CSE
23	811218104024	SATHASIVAM P	II CSE
24	811218104026	SHALINI P	II CSE
25	811218104027	SHANMUGANATHAN P	II CSE
26	811218104028	SHEELA.S	II CSE
27	811218104029	SUDHAKARAN C	II CSE
28	811218104030	SUGASINI.G	II CSE
29	811218104031	VAISHNAVI G	II CSE
30	811218104032	VIGNA SRI S	II CSE
31	811218104033	VIJAYA DHARANI K	II CSE
32	811218104034	VINOTHINI S	II CSE
33	811218104501	SIVASANGARI C	II CSE
34	811217104001	AARTHI J	III/CSE

100.



GOLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Thruchtrapalli- 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

S.NO	REG.NO	STUDENT'S NAME	YEAR/BRANCH
35	811217104002	DEEPIKA N	III/CSE
36	811217104003	DHANALAKSHMI R	III/CSE
37	811217104004	GOATHAR FATHIMA S	III/CSE
38	811217104005	GOWTHAM RAAJ K	III/CSE
39	811217104007	JAYA PRATHA A	III/CSE
40	811217104008	JICKSON S	III/CSE
41	811217104009	KAMATCHI V	III/CSE
42	811217104010	KOKILA V	III/CSE
43	811217104011	LAKSHMI PRIYA M	III/CSE
44	811217104012	NAVEEN R	III/CSE
45	811217104013	PANNEER SELVAM R	III/CSE
46	811217104014	PRINCY DEEPA X	III/CSE
47	811217104015	RAGHUL L	III/CSE
48	811217104016	SALMA BANU M	III/CSE
50	811217104017	SEEBIKA M	III/CSE
51	811217104019	SIVASANKARI S	III/CSE
52	811217104020	SWATHI M	III/CSE
53	811217104022	VASUKI M	III/CSE
54	811217104023	YOKESH KANNAN P H	III/CSE
55	811216104002	ANJALADEVI J	IV/CSE
56	811216104003	APARNA S	IV/CSE
57	811216104004	ARCHANA T	IV/CSE
58	811216104005	BAKKIYA V	IV/CSE
59	811216104007	BANUMATHI D	IV/CSE
50	811216104008	DHANUSH S	IV/CSE
51	811216104009	DHIVYA B	IV/CSE
52	811216104010	DIVYA R	IV/CSE
53	811216104011	GANESHKUMAR A	IV/CSE
54	811216104012	GOBALA KRISHNAN R	IV/CSE
55	811216104013	GUNASEKAR P	IV/CSE
66	811216104014	JOTHIKA R	IV/CSE
7	811216104015	KARTHIKEYAN J	IV/CSE
8	811216104016	KEERTHANA K	IV/CSE
9	811216104017	KEERTHANA P(490725)	IV/CSE
0	811216104018	KIRUBAKARAN M	IV/CSE
1	811216104019	KIRUTHIKA R	IV/CSE
2	811216104020	MEENAKSHI S	IV/CSE
	· · · · · · · · · · · · · · · · · · ·	NAVEEN K	IV/CSE
	1 Speni	NAVEENKUMAR S	IV/CSE
- 4 -	tales and plant takes to the state of the st	NEROSON KIOSUS N	IV/CSE /



GOLLEGE OF ENGINEERING
Madural Main Road (NH-45B), Manikandam, Tiruchirapalii-620 012
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S.NO	REG.NO	STUDENT'S NAME	YEAR/BRANCH
76	811216104024	PAVITHRA G	IV/CSE
77	811216104026	PAVITHRA.R	IV/CSE
78	811216104027	PRABAHAR R	IV/CSE
79	811216104028	RACIKA R	IV/CSE
80	811216104029	RAHUL S	IV/CSE
81	811216104030	REVATHI N	IV/CSE
82	811216104031	SARANYA A	IV/CSE
83	811216104032	SARANYA M	IV/CSE
84	811216104033	SARAVANAN M	IV/CSE
85	811216104034	SHARUN PRABU A	IV/CSE
86	811216104035	SOUNDHARYA J	IV/CSE
87	811216104036	TAMILSELVAM M	IV/CSE
88	811216104038	THARIK A	IV/CSE
89	811216104039	VARSHA S	IV/CSE
90	811216104040	VIGNESHWARACHARI S	IV/CSE
91	811216104041	VIJAYALAKSHMI M	IV/CSE
92	811216104042	VIJAYALAKSHMI P	IV/CSE
93	811216104043	VINITHA M	IV/CSE
94	811216104044	VINITHA DEVI P	IV/CSE
95	811216104045	YOGESHWARAN S	IV/CSE
96	811216104046	YUVASRI T	IV/CSE
97	811218405001	ASWINI M	II/ME(CSE)
98	811218405002	GWENDOLYN ROSETTA G	II/ME(CSE)
99	811218405004	NIRMALA N	II/ME(CSE)

VAC Coordinator

(D.:

HOD/CSE



COLLEGE OF ENGINEERING Madural Main Road (NH-458), Manikandam, Trichy-12.

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

STUDENTS PARTICIPATION LIST

VALUE ADDED COURSE

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

AGUMENTED REALITY AND VIRTUAL REALITY

S.NO	REG NO	STUDENTS NAME	BRANCH	22.06	.2020	23.00	5.2020	24.06	5.2020	25.00	5.2020	26.00	5.2020	NO OF SESSIO	SIGN
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4	811218104004	ARJUN V		1	/_	1	/	/	1	1	1	1	1	10	
5	811218104005	DHARSHINI A	U CSE	ť	1	1	1	1	1	1	1	,	1	10	0
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0		DINESH KUMAR K	II CSE	1	,						',		T	10	Ż
7	811218104007	GOWTHAM K	II CSE	1		-1						/	1	10	
8	811218104008	HARIHARAN N	II CSE	/	_(_	1	_			1	1	1	10	MODE
9	811218104009	III MA LATHA B	(I CSE			1	1	/	(1	/	1	1	10	DE
10	811218104010	JI-GATHISWARI D	II CSE			A	A	1	1	1	1	/	1	8	
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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	22.06	5.2020	23.0	6.2020	24.00	5.2020	25.00	5.2020	26.06	5.2020	NO OF	SIGN
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14	811218104014	MADHAVAN S	II CSE		_/_	/	/_	1	1	/	1	1	1	10	
15	811218104015	MAHENDRAN S	II CSE	1.		1	(_	1	1	1	1		1	10	
16	811218104017	MUTHAIYA P	II CSE		_	1	1		1	1	/	1	1	10	
17	R11218104018	NI ETHIMOZHI A	II CSE	(/	1	1	/	1	1	(1	10	
18	811218104019	NITHYA P	II CSE	1		/		1	1		/	1	1	10	N
19	811218104020	NIVEDHA S	II CSE	1	1	1	1	1	1	1	1	1	,	10	ONLINE
777 ~	811218104021	PRIYANGA G		A	A	1	_ ^	1	1	1	,	1	1	0	
	811218104022	RAMYAR	II CSE	1	1	1	7	1	1	/	1	7	1	10	MODE
	×11218104023		II CSE	1	1	1	1	,	1	1		7	, 	10	DE
		SHARVESH CHARAN.S.A	II CSE	1	1	1	_		,	,	,	/			
	811218104024	SA'THASIVAM P	II CSE	1	/	A		7	,		,		/	10	
new he response	811218104026	SHALINI P	II CSE	,	,	1	,		,	,	/		_/	8	
25	811218104027	SHANMUGANATHAN P	II CSE		1			/	· ,	1	/	4	(10	
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COLLEGE OF ENGINEERING Madural Main Road (NH-458), Manikandam, Trichy-12.
Approved by AICTE, NewDelbl & Affillated to Anna University. Chennai

S.ND	REG NO	STUDENTS NAME	Water A see .		6.2020	23.0	5.2020	24.00	5.2020	25.00	5.2020	26.06	5.2020	NO OF	SIGN
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26	×11218104028	SHEELA.S	II CSE			***************************************	~~	i		du			- International Control of the Contr	DED	NT
27	811218104029	SUDHAKARAN C	II CSE		/_			(1	1	1	10	og anoparation
28	811218104030	SUGASINI.G	II CSE			1		/_	1	1	1	1	1	01	
29	×11218104031	VAISHNAVI G	II CSE			1_	/	1	1	1	1	1	1	10	
30	811218104032	VIGNA SRI S	II CSE		1	1	_/_	1_	1	1	1	1	1	10	
31	811218104033	VIJAYA DHARANI K	II CSE	1	1	1	1	1			1	1	1	(0)	
	811218104034	VINOTHINI S	II CSE	(1	1		1	1	1	1	,	/	10	ONLINE
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	811217104001	AARTHIJ	II CSE	-		1	1	,	/	,	1		/	10	
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	811217104003	DHANALAKSHMI R	III/CSE	1	1	,		,						10	
	811217104004	GOATHAR FATHIMA S	III/CSE	Ă.	<u></u>	/	4	/	1					.10	
	811217104005	GOWTHAM RAAJ K	III/CSE	F	1	(,	/		1	1	/	1	8	
9 8	11217104007	JAYA PRATHA A	III/CSE	-	<u></u>	,		/		1	_			10	
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S NO	REG NO	CONT. VIOL. CONT.		22.06	.2020	23.00	.2020	24.00	5.2020	25.06	.2020	26.06	5.2020	NO OF	sign
na 100 ago. 10		STUDENTS NAME	VEAR/ BRANCH	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	SESSIO NS ATTEN	OF THE STUDE
40	811217104008	JICKSON S	III/CSE	1	,	<i></i>	,			! 				DED	NT
41	811217104009	KAMATCHI V	III/CSE				,	-						10	
42	811217104010	KOKILA V	III/CSE	/					1		/		/	10	
43	811217104011	AKSHMI PRIYA M	III/CSE		/		1		1	/	1		1	10	
44	811217104012	NAVEEN R	III/CSE	H	<u>A</u>			-		1	1	_ /		8	
45	811217104013	PANNEER SELVAM R	III/CSE	1.	(/	(1	1	/		1	1	10	0
46	811217104014	PRINCY DEEPA X	III/CSE	_(_		A	A	1	1	1		1	1	8	N
47	811217104015	RAGHUL L	UI/CSE	Ć	1	(1		. /	1	1	1	1	10	ONLINE
48	811217104016	SALMA BANU M	III/CSE	(((1	1	1	/	1	10	
50	811217104017	SEEBIKA M	III/CSE	1	1	(1	1	(1	1	1	1	10	MODE
51	811217104019	SIVASANKARI S	III/CSE	1	1	1	1	1	1	1	1	1	/	10	E
52	811217104020	SWATHI M		/	1	(1	1	1	1	1	1	1	10	
	811217104022	VASUKI M	III/CSE	(1	(1	1	1	1	1	1	1	10	
	811217104023	YOKESH KANNAN P H	III/CSE	1	((1	1	1	1	1	1	1	10	
		ORESH KANNAN PH	III/CSE	(<i>C</i>	(1	1	1	1	1	1	-',	10	



COLLEGE OF ENGINEERING Madural Main Road (NH-458), Manikandam, Trichy 12.
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Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

S.NO	REG NO	STUDENTS NAME	VIII A TO (22.00	5.2020	23.0	5.2020	24.06	5.2020	25.06	.2020	26.06	5.2020	NO OF	Manikano SIGN
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55	811216104002	ANJALADEVI J	IV/CSE	j	A	about 1		adout, seem					Plant o Advenue	ATTEN DED	NT
56	811216104003	APARNA S	IV/CSE								1		1	10	
57	811216104004	ARCHANA T	V/CSE	(_/_				1	1	0)	
58	811216104005	BAKKIYA V	IV/CSE		(1	1			. /	(10	
59	×11216104007	BANUMATHI D	IV/CSE	A	A	. /	1	1	/	1	1	1	1	8	
60	811216104008	DHANUSH S	IV/CSE	1	- American	1	1	1	1	1	1	1	1	10	
61	811216104009	DHIVYA B	IV/CSE	1	1		1	1		1	1	,	1	10	NO
62	811216104010	DIVYAR	IV/CSE	1	1	/_	1		1	1	1	1	/	10	
53	811216104011	GANESHKUMAR A	IV/CSE	1	1	1	1		1	1	1	1	7	10	N E
54	×11216104012	GOBALA KRISHNAN R	(V/CSE	4	1	A	Ā	1	1	1	1	/	1	8	ONLINE MODE
5	811216104013	GUNASEKAR P	IV/CSE	1 1		(1	1			1	1	1	10	Œ
6	811216104014	OTHIKA R	V/CSE		1	1	1	1	/	1	1	1	/	10	
7	811216104015	KARTHIKEYAN J	(V/CSE	1			1	1	(1	1	1		10	
8	811216104016	KEERTHANA K		0	1	1	/		1	/	1	/	1	10	
	the executively the second		IV/CSE	1	1	1	1	7	1	,	,	,	7	10	



COLLEGE OF ENGINEERING Madural Main Road (NH-458), Mantkandam, Trichy-12. Approved by AICTE, NewDeini & Affiliated to Anna University, Chennai

S.NO	REG NO	STUDENTS NAME	N (78% 4	22.00	.2020	23.0	6.2020	24.00	5.2020	25,06	5.2020	26.00	5.2020	NO OF	nikandar SIGN
		STODE VIS NAME	VEAR/ BRANCH	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	SESSIO NS	OF THE STUDE
69	811216104017	KI ERTHANA P	IV/CSE					THE PARTY OF THE P		-	F. b Fisherite bi astronyje	*	May 1 Shaping April Made pales	ATTEN DED	NT
70	811216104018	KIRUBAKARAN M	IV/CSE	/		<u></u>	_^_	1	(1		1		(0)	
71	811216104019	KIRUTHIKA R	IV/CSE				1		1		1	j	1	10	
72	811216104020	MI ENAKSHI S	IV/CSE		1_	1_	1		1	1	(((1.0	
73	811216104021	NAVEEN K	IV/CSE		1	1	1		1	1	1	1	1	lo	
74	811216104022	NAVEENKUMAR S	IV/CSE	/		1	_/		1	1	1	1	(10	
75	811216104023	NLROSON KIOSUS N	IV/CSE	/	1	1	1	(1	1	1	/	(1)	N
76	811216104024	PAVITHRA G	IV/CSE		/	1	1		_	0	/	1	1	10	N
77	811216104026	PAVITHRA,R	IV/CSE	1	1	1	1	1	(1	1	/		10	ONLINE MODE
78	×11216104027	PRABAHAR R	IV/CSE	1	/	1		1	1	1	1	1	,	10	101
79	811216104028	RACIKA R	IV/CSE	1	1	1	1	1	1	1	1	/	/	10	Œ
80 8	311216104029	RAHUL S	IV/CSE			1	1	1	1	1	1		/		
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82 8	311216104031	SARANYA A	IV/CSE	1	1	8	1	1	1	/	/	/	/	10	



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Dr.C. P. L.

Dr. G. Balakrishnan, M.E., Ph.D.,
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IG Valley, Madurai Main Road

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VAC Coordinator

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Manikandam, Trichy-620 012.

HoD/CSE

Name of the Student:

Year/Sem:

AU Register Number:

Volva Added Comme

value Added Course
"AGUMENTED REALITY AND VIRTUAL REALITY""
MCO QUESTIONS (25X1 = 100 Marks)
1. A field of technology that deals with a combination of real world and the data generated from computer. a) ML b) AI c) AR d) IoT
2. AR is interactive in real-time. a) True b) False
3. Technologies that completely involve a user inside a synthetic environment. a) AR b) VR c) AI d) ML
4. Technologies that allow the user to see the real world, with virtual objects composited in the real world. a) AR
b) VR c) AI d) SR
is a display device, worn on head as a part of helmet that has a small display optic. a) HD b) MD c) HMD d) ARD
6. Wearable computing device in the form of computerized eyeglasses. a) HMD b) Helmets

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Manikandam, Trichy-620 012.

- c) Smart Glasses
- d) VR Glasses
- 7. A tracking based on geo-location information.
- a) Location based
- b) Markerless
- c) Marker based
- d) GPS
- 8. SLAM stands for?
- a) Simultaneous localization and mapping
- b) System localization and mapping
- c) Simultaneous localization and maintenance
- d) System localization and maintenance
- 9. A technique that enables light field which is generally the product of a light source scattered off objects.
- a) AES
- b) Holography
- c) Cryptography
- d) Gyrography
- 10. A ____ can be recorded using a normal light source.
- a) Holograph
- b) Photography
- c) Holography
- d) Photograph
- 11. HMD stands for?
- a) Head Mounted Display
- b) Head Masked Display
- c) Head Made Display
- d) Head Mounted Detection
- 12. In terms of image analysis, it is important to attend to primary level signs in visual codes, most obviously for examples of still photography.
- a) True
- b) False

13. ____ keeps track of position.

- a) Motion analyzers
- b) Motion Trackers
- c) HMD
- d) SMD

(D.:

14. BOOM stands for?

- a) Binocular Omni-Orientation Manager
- b) Binary Omni-Orientation Manager
- c) Binocular Omni-Orientation Monitor
- d) Binary Omni-Orientation Monitor
- 15. A term for Illusion of immersion by projecting stereo images on the walls and floor of a room.
- a) CAVE
- b) BOOM
- c) GUI
- d) HMD
- 16. It is a mediated environment which creates the sensation in a user of being present in a (physical) surrounding.
- a) WWW
- b) VR
- c) HMD
- d) GUI
- 17. A term to describe the extent to which a user can modify form and content of a mediated environment.
- a) Vividness
- b) Richness
- c) Interactivity
- d) Mapping
- 18. A type of VR environment in which subjects are visually isolated from the real environment.
- a) Immersive
- b) Semi immersive
- c) Non immersive
- d) Augmented
- 19. In this type of VR environment, the three-dimensional scene is considered as a part of the physical environment.
- a) Immersive
- b) Semi immersive
- c) Non immersive
- d) Augmented
- 20. In this type of VR environment, the subjects can perform both in the real and virtual environment.
- a) Immersive
- b) Semi immersive

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- c) Non immersive
- d) Augmented

21. Separation of user logical memory and physical memory is

- a) Memory control
- b) Memory management
- c) Memory sharing
- d) Virtual memory

22. Virtual Memory can be implemented via

- a) Demand Paging
- b) Logical paging
- c) Structural way
- d) Simple division

23. COW stands for?

- a) Control over write
- b) Convert over write
- c) Count over write
- d) Copy over write

24. LRU stands for?

- a) Least Recently used
- b) Less Recently used
- c) Least recurrently used
- d) Least Randomly used

25. What is the correct syntax of echo statement in virutal?

echo

echo()

echo = ()

Both A. and B.

1



Value Added Course

AGUMENTED REALITY AND VIRTUAL REALITY

ANSWER KEY

1	Α	6	В	11	C	16	C	21	A
2	В	7	A	12	В	17	В	22	C
3	A	8	D	13	A	18	Α	23	C
4	C	9	В	14	В	19	A	24	В
5	В	10	À	15	C	20	Č	25	В

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VAC Coordinator

Aartin

Almi

21.A) memory

III/CSE

0) False

A)AR

2 () Structured way

CIAI

23 c) count oner write

B) MD

24, B) tess owen my wed

6. D) VR Glasses 25. B) Echo 1)

A) Simultaneous Localization and Mapping

R) 8ystem localization and mapping

9. B) Holography

10 A) Holography

1. () Head made Display.

12, A) True

13. B) Motoin Trackers.

14 B) Binary oruni - Orientation manager.

C) G152

16. c) 4mg

17 B) Richmess.

18. B) sem immerined

19. A) Immorsine

20. C) Non Immersion.

Dr. G. Balakrishnan, M.E., Ph.D., Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

811218104014 TICSE 1) A)ML C. structure way C. Count overwnike Lew recently used. cho () () HMD b) Hermets a) Location bases. a) System Localization and maintenance Cryptography istograph Head Made Display motion analyzers binary umni - orientation manager aul 15 HMD Richness Immersive Immersive Indra Ganesan College of Engineering IG Valley, Madurai Main Road non-Imensive Manikandam, Trichy-620 012.

Memory Control?

Mcq

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Department of Computer Science and Engineering Academic Year 2019-2020 — EVENSemester VALUE ADDED COURSE ASSESSMENT SHEET

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"AGUMENTED REALITY AND VIRTUAL REALITY"

S.No.	Reg.No	Student's Name	Year/	Attendar	ice Details	VAC-M	CQ TEST	OVERALL
	The formal and the first of the		Branch	No. of Hrs Attended	Attendance Mark(100)	No of Correct	MCQ	MARK(100 (50% of A +
1	811218104001	AISHWARYA M	II CSE	remin quantum	(A)	Answers	Mark(100) (B)	50% of B)
2	811218104002	AJITH KUMAR R	II CSE	30	100	20	80	90
3	811218104003	ARAVINDH SAMY P	echanic I	29	83	15	60	72
4	811218104004	ARJUNV	II CSE	30	100	19	76	The age of age of the second s
5	811218104005	DHARSHINI A	II CSE	30	100	22	Street Acceptance of the Accep	88
6			II CSE	28	92	- Micesesser	88	94
· · · · · · · · · · · · · · · · · · ·	811218104006	DINESH KUMAR K	II CSE		The state of the s	18	72	82
7	811218104007	GOWTHAM K	TI CSE	28	92	17	68	80
8	811218104008	HARIHARANN		30	100	18	72	86
window	respons to the second s	Transfers statement of the same and the same	II CSE	30	83	17	68	76



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9	811218104009	HEMA LATHA B						
10			II CSE	30	92	16		
10	811218104010	JEGATHISWARI D	II CSE	27		\$VI	64	78
11	811218104011	JOSHI DAYANA K	II CSE	PRI- day to	92	16	64	78
12	811218104012	KANAGARAJ K S		27	100	20	80	90
13	811218104013		II CSE	27	92	20	80	motera and moreovations below to pro-
	(reco	KIRUTHIGA V	II CSE	30		779/100.00	1 to a la laboration of the second second	86
14	811218104014	MADHAVAN S	II CSE	Profession 1. 2.1 Billionson	100	22	88	94
15	811218104015	MAHENDRAN S	II CSE	30	100	21	80	80
16	811218104017	MUTHAIYA P		30	92	19	76	
17	~		II CSE	30	92	19	The second designation of the second	84
1/	811218104018	NEETHIMOZHI A	II CSE	28	~	19	76	84
18	811218104019	NITHYA P	II CSE	designation of the second seco	100	20	80	90
19	811218104020	NIVEDHA S		30	83	16	64	74
20	811218104021		II CSE	30	83	16	64	***************************************
		PRIYANGA G	II CSE	28	100	No. of Contract of	THE AMERICAN PROPERTY AND	74
21	811218104022	RAMYA R	II CSE	When we	You bronds in	22	88	94
22	811218104023	SHARVESH CHARAN.S.A	II CSE	28	92	18	72	82
23	811218104024	SATHASIVAM P	Yang x	28	100	22	88	W res
24			II CSE	27	100	22	PPV - Americans	94
۷4	811218104026	SHALINI P	II CSE	30	\$20.00 mm		88	94
		Williams Land.		30	92	20	80	86



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25	811218104027	SHANMUGANATHAN P	II CSE					Manikanda
26	811218104028	SHEELA.S	4 Mariana or Land	30	92	19	76	84
27	811218104029	**	II CSE	27	100	20	1	*****
		SUDHAKARAN C	II CSE	30		19	80	90
28	811218104030	SUGASINLG	II CSE	3V	83	19	64	74
29	811218104031	VAISHNAVI G	PETITAL BARROWS	30	83	19	64	74
30	811218104032	4	II CSE	30	100	22		
		VIGNA SRI S	II CSE	28	PPP	A-100 411 (A) (A)	88	94
31	811218104033	VIJAYA DHARANI K	II CSE		92	18	72	82
32	811218104034	VINOTHINI S	II CSE	28	100	22	88	94
33	811218104501	SIVASANGARI C	****	30	100	22	88	and the state of t
34	811217104001		II CSE	30	92	a decimal communication for hymothesis	1 Was Nove Annual Control	94
		AARTHIJ	III/CSE	28	The Indiana, and	20	80	86
35	811217104002	DEEPIKA N	III/CSE		92	20	80	86
36	811217104003	DHANALAKSHMI R		28	100	22	88	94
37	811217104004	GOATHAR FATHIMA S	ΠI/CSE	28	92	20	80	Management of the second of th
38	811217104005		III/CSE	30	92			86
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39	811217104007	JAYA PRATHA A	III/CSE	or company of American	100	22	88	94
10	811217104008	ЛСKSON S		30	92	20	80	86
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41	811217104009	KAMATCHI V	III/CSE		4	Manufacture.		IG Valley, Madu Manikandam, Tr
42	811217104010	KOKILA V	993 No. 1 Income par p.	30	100	22	88	
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43	811217104011	LAKSHMI PRIYA M	III/CSE		Professional and a superprise	20	80	86
44	811217104012	NAVEEN R	III/CSE	27	92	20	80	86
45	811217104013	PANNEED GET VALLE	9935 - Norman	27	92	20	80	
46		PANNEER SELVAM R	III/CSE	30	100			86
40	811217104014	PRINCY DEEPA X	III/CSE	***************************************		22	88	94
47	811217104015	RAGHUL L	III/CSE	30	92	20	80	86
48	811217104016	SALMA BANU M	Andreador Springerson and professions	30	92	20	80	86
50	811217104017		III/CSE	29	100	22		Amerikanski kalengalangan op steens delan
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2	811217104020	SWATHI M	HUCCE	29	92	20	80	86
3	811217104022		III/CSE	27	100	22	88	And the second s
A		VASUKI M	III/CSE	27	92	***************************************	00	94
4	811217104023	YOKESH KANNAN P H	III/CSE		~~~	20	80	86
5	811216104002	ANJALADEVI J	IV/CSE	27	92	20	80	86
6	811216104003	APARNA S		27	92	20	80	Markey Markey
7	* ***		IV/CSE	28	92		***************************************	86
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58	811216104005	BAKKIYA V	IV/CSE					Indra Ganesan Colleg
59	811216104007	BANUMATHI D		28	92	20	80	Manikandam, Tri
60			IV/CSE	30	92	20	***************************************	1000
00	811216104008	DHANUSH S	IV/CSE	30			80	86
61	811216104009	DHIVYA B	IV/CSE	Making National Assessment Assess	92	20	80	86
62	811216104010	DIVYA R		29	92	16	64	78
63			IV/CSE	29	92	16		***************************************
03	811216104011	GANESHKUMAR A	IV/CSE	29	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	77 904 9041	64	78
64	811216104012	GOBALA KRISHNAN R	IV/CSE		100	20	80	90
65	811216104013	GUNASEKAR P		29	92	20	80	86
66			IV/CSE	28	100	22	Part affects and the same	
vo	811216104014	JOTHIKA R	IV/CSE	28	***************************************		88	94
67	811216104015	KARTHIKEYAN J	IV/CSE		92	17	68	80
58	811216104016	KEERTHANA K		30	92	19	76	84
59			IV/CSE	29	92	19	**************************************	had be proportioned for the second se
24000	811216104017	KEERTHANA P(490725)	IV/CSE	29		***************************************	76	84
70	811216104018	KIRUBAKARAN M	IV/CSE	99 Manage .	100	20	80	90
71	811216104019	KIRUTHIKA R		30	83	16	64	74
2			IV/CSE	30	83	16	elfe de els - a leamanne : d'app	* PMS and Photo Stranger on Enders appropriate
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3	811216104021	NAVEEN K	IV/CSE	No. observations and	100	22	88	94
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75	811216104023		IV/CSE	28	92	16	61	
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76	811216104024	PAVITHRA.G	IV/CSE	20	92	16	64	78
77	811216104026	PAVITHRA.R		28	100	20	80	
70			IV/CSE	29	92			90
78	811216104027	PRABAHAR R	IV/CSE		7 des	20	80	86
79	811216104028	RACIKA R	TW/Gan	30	100	22	88	94
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81	811216104030	REVATHI N	IV/CSE	endalating ways to describe	92	19	76	84
82	811216104031	SARANYA A	abhpany ma	27	92	19	76	84
83	811216104032		IV/CSE	27	100	20	00	Who we again to the ag
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84	811216104033	SARAVANAN M	IV/CSE	.20	83	16	64	74
85	811216104034	SHARUN PRABU A		30	83	16	64	74
86	-1		IV/CSE	27	100	20		74
	811216104035	SOUNDHARYA J	IV/CSE	Ġ.		22	88	94
87	811216104036	TAMILSELVAM M	IV/CSE	28	92	18	72	82
88	811216104038	THARIK A		28	92	16	64	or Manual property and Manual
89			IV/CSE	29	92		VIVINATURAL CO. VIVINATURA	78
ייט	811216104039	VARSHA S	IV/CSE		~	16	64	78
	S. Aberbassayana	Angel Harre . Museum joy		29	100	20	80	90



COLLEGE OF ENGINEERING Madural Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

Dr. G. Balakar de programme D.,

P, Indra Ganesan College Manikandam, To,

90	811216104040	VIGNESHWARACHARI S	IV/CSE			The state of the s		
91	811216104041	VIJAYALAKSHMI M		29	92	16	64	78
		VEATALAKSHMI M	IV/CSE	27	100	5.0	DAMAGE SPACE	10
92	811216104042	VIJAYALAKSHMI P	IV/CSE		100	20	80	90
93	811216104043	VINITHA M		27	92	20	80	
	* ** ***	VINITHAM	IV/CSE	30	100		-	86
94	811216104044	VINITHA DEVI P	IV/CSE	JU	100	22	88	94
95	811216104045	VOCESTA	#Y/CSE	30	92	17	68	
		YOGESHWARAN S	IV/CSE	27		7/3 rds American	V6	80
96	811216104046	YUVASRI T	TV/CSE	21	92	19	76	84
97	811218405001		IV/CSE	28	92	19	76	Congression, seeing desired in injury spice .
-	011210403001	ASWINI M	II/ME	28	When Barregan	.,	/0	84
98	811218405002	GWENDOLYN ROSETTA G	TI/AGE	28	100	20	80	90
99	811218405004		II/ME	29	83	16		Non-Linkson comments of Produces of
"	011210403004	18405004 NIRMALA N	II/ME		- Office States copyright	TO	64	74
	- Ty northly working to eight \$200 minutes and the second	1	TOTAL CONTROL OF THE PARTY OF T	29	83	16	64	74

VAC Coordinator

HoD/CSE

#### Report on Value Added Course

Title:

AGUMENTED REALITY AND VIRTUAL REALITY

Resource Person:

Mrs. Sankari

Flink Technologies.

Kumbakonam

Date of conduct from:

22.06.2020

To: 26.06.2020 Duration:

30 Hours

Organized Department:

COMPUTER SCIENCE AND ENGINEERING

Participant Year:

CSE IV,III,II, and M.E-II

No. of Students Registered: 99

Venue:

online mode Google Meet: meet.google.com/22.06.2020 to 26.06.2020

### Outcome of Value Added Course (VAC): At the end of the Course, Students can able to

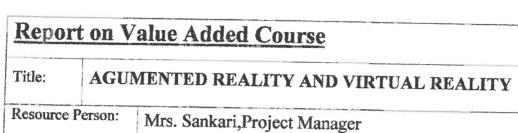
- Transform textbooks or learning materials into interactive 3D models through AR.
- Access additional information about their surroundings in real-time through AR
- Provide real-time navigation guidance by overlaying directional arrows or information onto the user's view.
- Enable users to watch 360-degree videos.
- Create immersive gaming experiences where users can feel fully immersed in virtual worlds.

#### Assessment Process

- Students, who are securing more than 60% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator





Plink Technologies, Kumbakonam

Date of conduct from: 22.06.2020 To: 26.06.2020

22.06.2020 To: 26.06.2020 Duration: 30 Hours

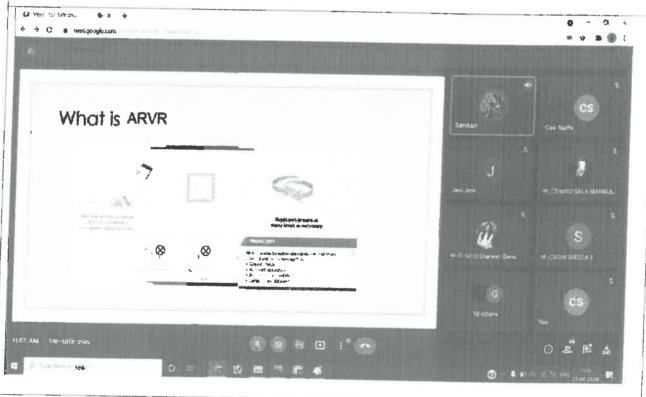
Organized Department: COMPUTER SCIENCE AND ENGINEERING

Participant Year: CSE IV,III,II, and M.E-II No. of Students Registered : 9

online mode Google Meet: meet.google.com/22.06.2020 to 26.06.2020

Sample Photo

Venue:



VAC Coordinator

A Guld HoD/CSE

Phincipal



# Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE. NewDelhi & Affiliated to Anna University, Chennai



### CERTIFICATE OF PARTICIPATION

33

Flink Technologies
Mrs. Sankari, Project Manager

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

TC4

Principal IGCE



### Indra Ganesan Madurai Main Road (NH-45B), Manikandam, Trichy-12.



### CERTIFICATE OF PARTICIPATION

Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

	This	is	to	certify	that	Mr/Ms.	• • • • •	RAMYA	R	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	of
• • • • • • • • • • • • • • • • • • • •	II.Y	EA	R.C	SE	• • • • • • •	has su	eccessfully	completed	the Va	lue Added	Course	on
AGUM	ENTE	ED I	REA	LITY A	ND V	IRTUAL	REALIS	<b>IY</b> organized	d by De	partment o	of Compu	ıter
Science d	and E1	ngin	eerir	ig and I(	QAC oj	f our Insti	itution in	Association	with F	link Techn	ologies fr	rom
22 nd Jun	2020	TO	26th	i Jun 202	20 duri	ng the Acc	ademic Ye	ear 2019-202	20.			

Flink Technologies Mrs. Sankari, Project Manager

Principal Indra Ganesan College of Engineering IG Valley, Modurai Ivlain Road

Manikandam, Trichy-620 file:

Principal IGCE



# Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai



### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.	• • • • •	MUTHA	IYA F	)	• • • • • • •	• • • • • •	of
• • • • • • • • •	II.Y	EA	R.C	SE		has su	ıccessfully	completed	the T	Value	Added	Course	on
AGUM	ENTE	ED I	REA	LITY A	ND V	IRTUAL	C REALI	<b>IY</b> organize	d by I	Depart	tment of	Compu	ıter
Science d	and E1	ngin	eerin	ig and I(	QAC of	^c our Inst	itution in	Association	with	Flink	Technol	logies fr	от
22 nd Jun	2020	ТО	26th	i Jun 202	20 duri	ng the Ac	cademic Yo	ear 2019-202	20.				

Flink Technologies
Mrs. Sankari, Project Manager

Dr. G. Balalyisiman, M.E., Fla.

Indra Ganesan College of Engineering IG Valley, Madurai Main Road 'Manikandam, Trichy-620 012. 364

Principal IGCE



# Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal



### CERTIFICATE OF PARTICIPATION

33

Flink Technologies Mrs. Sankari, Project Manager Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering

Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012.

334

Principal IGCE





Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

### CERTIFICATE OF PARTICIPATION

335

Flink Technologies Mrs. Sankari, Project Manager Dr. G. Balakur Dr. J., M.E., Ph.D.

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam Tricky-630 612. 304

Principal IGCE





Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal

#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.	• • • • • •	DHARS	HINL	A	• • • • • • • •		of
• • • • • • • • •	II.Y	EA	R.C	SE	• • • • • • •	has su	ccessfully	completed	the I	Value	Added	Course	on
AGUM	ENTE	ED I	REA	LITY A	ND V	IRTUAL	REALIT	IY organize	ed by I	Depart	tment of	f Compi	ıter
Science o	and E1	ngin	eerir	ng and I(	QAC oj	f our Insti	itution in	Association	ı with	Flink	Techno	logies fi	rom
22 nd Jun	2020	ТО	26th	i Jun 202	20 duri	ng the Acc	ademic Ye	ar 2019-20	20.				

Flink Technologies
Mrs. Sankari, Project Manager

Dr. G. Balan Islman, M.E., Ph.D.

Indra Ganesan College of Engineering IG Valley, Madurai Mair Road Manikandam, Trichy-620 012.

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## Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai



#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.	• • • • • •	AJITH K	(UM/	AR R		• • • • • •	of
• • • • • • • • •	II.Y	EA	R.C	SE	• • • • • • •	has su	ccessfully	completed	the '	Value	Added	Course	on
AGUM	ENTE	ED I	REA	LITY A	ND V	IRTUAL	REALIT	I <b>Y</b> organize	ed by	Depar	tment of	^F Compi	uter
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22 nd Jun	ı 2020	ТО	26th	i Jun 202	20 duri	ing the Acc	ademic Ye	ar 2019-20	20.				

335

Flink Technologies
Mrs. Sankari, Project Manager

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

ach-



### Indra Ganesa COLLEGE OF ENGINEERING



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.		PANEE	RSEL	VAM	R		of
		Y.E.A	AR (	CSE		has su	eccessfully	completed	the I	Palue )	Added	Course	on
AGUM	ENTI	ED 9	REA	LITY A	ND V	IRTUAL	REALI	IY organize	ed by I	Departi	nent of	Compu	ıter
Science	and E	ngin	eerir	ng and I	QAC oj	our Inst	itution in	Association	n with	Flink	Technol	logies fr	rom
$22^{nd} Ju$	n 2020	ТО	26th	i Jun 202	20 duri	ng the Ac	ademic Ye	ear 2019-20	20.				

Flink Technologies Mrs. Sankari, Project Manager

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Madurai Main Road (NH-45B), Manikandam, Trichy-12.



#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.		SEEBIK	A M	• • • • • •		••••	of
• • • • • • • • •		/E/	AR.	C.S.E		has su	ccessfully	completed	the '	Value .	Added	Course	on
AGUM	ENTE	ED 9	REA	LITY A	ND V	IRTUAL	REALI	IY organize	ed by (	Depart	ment of	Compu	ıter
Science d	and E1	ngin	eerin	ng and I(	QAC oj	f our Insti	itution in	Association	n with	Flink	Technol	logies fi	rom
22 nd Jun	2020	ТО	26th	i Jun 202	20 duri	ng the Acc	ademic Ye	ear 2019-20	20.				

Flink Technologies Mrs. Sankari, Project Manager

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



### Indra Ganesan Madurai Main Road (NH-45B), Manikandam, Trichy-12.



#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.		JAYAPI	ŖĄŢĿ	A.A.	• • • • • • • •	• • • • •	of
• • • • • • • •	Ш.	Æ.	AR.	C.S.E	• • • • • • •	has su	ccessfully	completed	the I	Value ,	Added	Course	on
AGUM	ENTE	ED I	REA	LITY A	ND V	IRTUAL	REALI	IY organize	ed by G	Departi	nent of	Сотрі	uter
Science	and E1	ngin	eerin	ng and I(	QAC oj	^f our Insti	itution in	Association	ı with	Flink	Technol	logies fi	rom
22 nd Jun	n 2020	ТО	26th	i Jun 202	20 duri	ng the Acc	ademic Ye	ear 2019-20	20.				

Flink Technologies Mrs. Sankari, Project Manager

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012,





Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

#### CERTIFICATE OF PARTICIPATION

Flink Technologies
Mrs. Sankari, Project Manager

Dr. G. Balakrishnan, M.B., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam; Trichy-820 012;

304



Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University. Chennal



#### CERTIFICATE OF PARTICIPATION

AGUMENTED REALITY AND VIRTUAL REALITY organized by Department of Computer

Science and Engineering and IQAC of our Institution in Association with Flink Technologies from

22nd Jun 2020 TO 26th Jun 2020 during the Academic Year 2019-2020.

33

Flink Technologies
Mrs. Sankari, Project Manager

Dr. G. Balakrishnen, M.E., Ph.D., Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-520 012

Principal IGCE

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Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AlCTE, NewDelhi & Affiliated to Anna University, Chennai

#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.	• • • • •	AARTHI	J	• • • • • • • •			of
• • • • • • • •	111.5	(E/	AR (	C.S.E	• • • • • • • •	has su	ıccessfully	completed	the '	Value A	ldded (	Course	on
AGUM	ENTE	ED 9	REA	LITY A	ND V	IRTUAL	REALI	<b>TY</b> organize	d by	Departm	ent of (	Сотри	ıter
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22 nd Jun	2020	ТО	26th	i Jun 202	20 duri	ng the Acc	ademic Y	ear 2019-20.	20.				

325

Flink Technologies
Mrs. Sankari, Project Manager

Dr. G. Balakersbran, M.E., Ph.D.

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
'Manikandam, Tricisy-829 83%.

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#### Indra Ganesan Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal



#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.	NAVEEN KUMAR S	f
• • • • • • • • •	<b>IV</b> .	Y.E.	AR.	CSE	• • • • • • •	has su	ccessfully completed the Value Added Course of	n
AGUM	ENTE	ED 9	REA	LITY A	ND V	IRTUAL	REALITY organized by Department of Compute	?Y
Science of	and E1	ngin	eerii	ng and I	QAC oj	our Insti	tution in Association with Flink Technologies from	n
22 nd Jun	a 2020	ТО	26t/	î Jun 202	20 duri	ng the Acc	ademic Year 2019-2020.	

Flink Technologies Mrs. Sankari, Project Manager

Indra Ganesan College of Engineering Principal IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

**IGCE** 



# Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai



#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.		GUNAS	EKAR	P		of
• • • • • • • • •	IV.	Y.E	AR.	CSE	* * * * * * * *	has su	ccessfully	completed	the Val	lue Added	Course	on
AGUM	ENTI	ED I	REA	LITY A	ND V	IRTUAL	REALI	IY organize	ed by Dep	partment o	f Compu	ıter
Science	and E	ngin	eerin	ng and I(	QAC oj	f our Insti	itution in	Association	ı with Fl	ink Techno	ologies fr	rom
22 nd Jun	ı 2020	TO	26th	i Jun 202	20 duri	ng the Acc	ademic Ye	ear 2019-20	20.			

33

Flink Technologies Mrs. Sankari, Project Manager

Dr. G. Balakrannan, Di.a., 2 .....

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 912. 304-



# Indra Ganesan BOLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai



#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.		• • • • • •	GANE	SHK	JMAR	Α	• • • • • • •	of
• • • • • • • • •	IV.	Y.E.	AR.	CSE	• • • • • • •	has s	ucces	sfully	complete	ed the	Value	Added	Course	on
AGUM	ENTE	ED 9	REA	LITY A	ND V	IRTUAI	L RI	EALIT	Y organi	zed by	Depar	tment o	of Compi	uter
Science a	ınd E1	ngin	eerin	ig and I(	QAC oj	f our Ins	titut	ion in	Associati	on wit	th Flink	Techno	ologies f	rom
22 nd Jun	2020	ТО	26th	Jun 202	20 duri	ng the A	cadeı	mic Ye	ar 2019-2	2020.				

3

Flink Technologies
Mrs. Sankari, Project Manager

Dr. G. Balakerishtham, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

Indra Ganesan Collage of Engineering IG Valley, Mcdural Main Road Manikandam, Trichy-620 012.

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Madurai Main Road (NH-45B), Manikandam, Trichy-12.
Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai

#### CERTIFICATE OF PARTICIPATION

Th	iis is	s to	certify	that	Mr/Ms.		DHANU	SH.S	• • • • • • • • • • • • • • • • • • • •	• • • • • •	of
	V.Y.E	AR	CSE	• • • • • • • •	has sı	uccessfully	completed	the Val	ue Added	Course	on
AGUMEN	TED	REA	LITY A	ND V	IRTUAL	C REALI	I <b>'Y</b> organize	ed by Dep	partment of	^F Compu	ter
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22 nd Jun 20	20 T	) 26th	i Jun 202	20 duri	ng the Ac	cademic Y	ear 2019-20	20.			

Flink Technologies
Mrs. Sankari, Project Manager

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan Collage of Engineering
IG Valley, Madurul Main Road

Manikandam, Trichy-020 012

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## Indra Ganesan COLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai



#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.	ANJALADEVIJ	of
• • • • • • • •	IV.	Y.E	AR.	CSE	• • • • • • •	has su	ccessfully completed the Value Added Course o	on
AGUM	ENTE	ED 9	REA	LITYA	ND V	IRTUAL	REALITY organized by Department of Comput	er
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22 nd Jun	2020	ТО	26th	i Jun 202	20 duri	ing the Acc	ademic Year 2019-2020.	

33.

Flink Technologies Mrs. Sankari, Project Manager

Dr. G. Balakrichnan, M.E., Ph.D.,

Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



# Indra Ganesan BOLLEGE OF ENGINEERING Madurai Main Road (NH-45B), Manikandam, Trichy-12. Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennal



#### CERTIFICATE OF PARTICIPATION

	This	is	to	certify	that	Mr/Ms.		MEENA	KSH	<b> \$</b>	• • • • • • • •		of
• • • • • • • •	<b>IV</b> .\	Y.E.	AR.	CSE	• • • • • • •	has si	uccessfully	completed	the '	Value )	Added C	ourse	on
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22 nd Jun	2020	TO	26th	i Jun 202	20 duri	ng the A	cademic Y	ear 2019-20	20.				

Flink Technologies
Mrs. Sankari, Project Manager

Dr. G. Balakers Man, M.E., Ph.D.,
Principal
Indra Ganeson College of Engineering

Indra Ganesian College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. E Campbell