



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
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:	AGUMENTED REALITY AND VIRTUAL REALITY				
Resource Person:	Mrs. Sankari, Project Manager 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	Semester:	EVEN	No. of Students Registered:	99
Venue:	online mode Google Meet: meet.google.com/22.06.2020 to 26.06.2020				

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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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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


HOD/CSE


PRINCIPAL

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


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



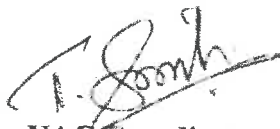
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Value Added Course

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	


VAC Coordinator




Hod/CSE

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



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VALUE ADDED COURSE

AGUMENTED REALITY AND VIRTUAL REALITY

STUDENTS PARTICIPATION LIST

S.NO.	REG.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


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



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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
60	811216104008	DHANUSH S	IV/CSE
61	811216104009	DHIVYA B	IV/CSE
62	811216104010	DIVYA R	IV/CSE
63	811216104011	GANESHKUMAR A	IV/CSE
64	811216104012	GOBALA KRISHNAN R	IV/CSE
65	811216104013	GUNASEKAR P	IV/CSE
66	811216104014	JOTHIKA R	IV/CSE
67	811216104015	KARTHIKEYAN J	IV/CSE
68	811216104016	KEERTHANA K	IV/CSE
69	811216104017	KEERTHANA P(490725)	IV/CSE
70	811216104018	KIRUBAKARAN M	IV/CSE
71	811216104019	KIRUTHIKA R	IV/CSE
72	811216104020	MEENAKSHI S	IV/CSE
73	811216104021	NAVEEN K	IV/CSE
74	811216104022	NAVEENKUMAR S	IV/CSE
75	811216104023	NEROSON KIOSUS N	IV/CSE

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

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



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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 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




HoD/CSE

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



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

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	22.06.2020		23.06.2020		24.06.2020		25.06.2020		26.06.2020		NO OF SESSIO NS ATTEN DED	SIGN OF THE STUDE NT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
26	811218104028	SHEELA.S	II CSE	/	/	/	/	/	/	/	/	/	/	10	ONLINE MODE
27	811218104029	SUDHAKARAN C	II CSE	/	/	/	/	/	/	/	/	/	/	10	
28	811218104030	SUGASINI.G	II CSE	/	/	/	/	/	/	/	/	/	/	10	
29	811218104031	VAISHNAVI G	II CSE	/	/	/	/	/	/	/	/	/	/	10	
30	811218104032	VIGNA SRI S	II CSE	/	/	/	/	/	/	/	/	/	/	10	
31	811218104033	VIJAYA DHARANI K	II CSE	/	/	/	/	/	/	/	/	/	/	10	
32	811218104034	VINOTHINI S	II CSE	/	/	/	/	/	/	/	/	/	/	10	
33	811218104501	SIVASANGARI C	II CSE	/	/	/	/	/	/	/	/	/	/	10	
34	811217104001	AARTHI J	III/CSE	/	/	/	/	/	/	/	/	/	/	10	
35	811217104002	DEEPIKA N	III/CSE	/	/	/	/	/	/	/	/	/	/	10	
36	811217104003	DHANALAKSHMI R	III/CSE	/	/	/	/	/	/	/	/	/	/	10	
37	811217104004	GOATHAR FATHIMA S	III/CSE	/	/	/	/	/	/	/	/	/	/	10	
38	811217104005	GOWTHAM RAAJ K	III/CSE	A	A	/	/	/	/	/	/	/	/	8	
39	811217104007	JAYA PRATHA A	III/CSE	/	/	/	/	/	/	/	/	/	/	10	
				/	/	/	/	A	A	/	/	/	/	8	




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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	22.06.2020		23.06.2020		24.06.2020		25.06.2020		26.06.2020		NO OF SESSIO NS ATTEN DED	SIGN OF THE STUDE NT
				FN	AN	FN	AN	FN			AN	FN	AN		
97	811218405001	ASWINI M	II/ME	/	/	/	/	/	/	/	/	/	/		
98	811218405002	GWENDOLYN ROSETTA G	II/ME	/	/	/	/	/	/	/	/	/	/	10	ONLINE MODE
99	811218405004	NIRMALA N	II/ME	/	/	/	/	/	/	/	/	/	/	10	
				/	/	/	/	/	/	/	/	/	/	10	


VAC Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
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HoD/CSE



Name of the Student:

Year/Sem:

AU Register Number:

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

5. A _____ 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

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

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- 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

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

echo

echo()

echo = ()

Both A. and B.

Dr. G. Balakrishnan, M.E., Ph.D.
Principal
Indra Ganesan College of Engineering
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Value Added Course

AGUMENTED REALITY AND VIRTUAL REALITY

ANSWER KEY

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

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

Indra Ganesan College of Engineering
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VAC Coordinator

MCA

Aarti

III/CSE

1. A) ML ✓
2. D) False ✓
3. A) AR ✓
4. C) AI ✓
5. B) MD ✓
6. D) VR Glasses ✓
7. A) Simultaneous Localization and Mapping
8. B) System localization and mapping
9. B) Holography ✓
10. A) Holography ✓
11. C) Head mounted Display.
12. A) True ✓
13. B) Motion Tracker ✓
14. B) Binary omni - Orientation manager.
15. C) GUI ✓
16. C) HMD ✓
17. B) Richness.
18. B) Semi Immersed
19. A) Immersive ✓
20. C) Non Immersive.
21. A) Memory control.
22. C) Structured way.
23. C) count over write
24. B) less memory used
25. B) Echo (1)

19
25



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

Mcq

21
25

Madhavan S

811218104014

II CSE

- 1) A) ML ✓
- 2) b) False ✓
- 3) A) AR ✓
- 4) c) AR ✓
5. c) HMD ✓
6. b) Helmets ✓
- 7) a) Location based ✓
- 8) a) System Localization and Maintenance ✓
- 9) c) Cryptography ✓
- 10) A) Holograph ✓
- 11) c) Head mounted Display ✓
- 12) A) True ✓
- 13) A) Motion analysis ✓
- 14) b) Binary omni-orientation manager ✓
- 15) c) GUI ✓
- 16) c) HMD ✓
- 17) b) Richness ✓
- 18) A) Immersive ✓
- 19) A) Immersive ✓
- 20) c) Non-Immersive ✓
- 21) A) Memory Control ✓
- 22) c. structure way ✓
- 23) c. count overwrite ✓
- 24) B. less recently used ✓
- 25) B. echo () ✓



Dr. G. Balakrishnan, M.E., Ph.D.,
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Department of Computer Science and Engineering

Academic Year 2019-2020 – ~~EVEN~~ Semester

VALUE ADDED COURSE ASSESSMENT SHEET

“AGUMENTED REALITY AND VIRTUAL REALITY”

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	Student's Name	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of Hrs Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	811218104001	AISHWARYA M	II CSE	30	100	20	80	90
2	811218104002	AJITH KUMAR R	II CSE	29	83	15	60	72
3	811218104003	ARAVINDH SAMY P	II CSE	30	100	19	76	88
4	811218104004	ARJUN V	II CSE	30	100	22	88	94
5	811218104005	DHARSHINI A	II CSE	28	92	18	72	82
6	811218104006	DINESH KUMAR K	II CSE	28	92	17	68	80
7	811218104007	GOWTHAM K	II CSE	30	100	18	72	86
8	811218104008	HARIHARAN N	II CSE	30	83	17	68	76



Indra Ganesan

COLLEGE OF ENGINEERING

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(Signature)

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

9	811218104009	HEMA LATHA B	II CSE	30	92	16	64	78
10	811218104010	JEGATHISWARI D	II CSE	27	92	16	64	78
11	811218104011	JOSHI DAYANA K	II CSE	27	100	20	80	90
12	811218104012	KANAGARAJ K S	II CSE	27	92	20	80	86
13	811218104013	KIRUTHIGA V	II CSE	30	100	22	88	94
14	811218104014	MADHAVAN S	II CSE	30	100	21	80	80
15	811218104015	MAHENDRAN S	II CSE	30	92	19	76	84
16	811218104017	MUTHAIYA P	II CSE	30	92	19	76	84
17	811218104018	NEETHIMOZHI A	II CSE	28	100	20	80	90
18	811218104019	NITHIYA P	II CSE	30	83	16	64	74
19	811218104020	NIVEDHA S	II CSE	30	83	16	64	74
20	811218104021	PRIYANGA G	II CSE	28	100	22	88	94
21	811218104022	RAMYA R	II CSE	28	92	18	72	82
22	811218104023	SHARVESH CHARAN.S.A	II CSE	28	100	22	88	94
23	811218104024	SATHIASIVAM P	II CSE	27	100	22	88	94
24	811218104026	SHALINI P	II CSE	30	92	20	80	86



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Principal
Indra Ganesan College of Engineering
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25	811218104027	SHANMUGANATHAN P	II CSE	30	92	19	76	84
26	811218104028	SHEELA.S	II CSE	27	100	20	80	90
27	811218104029	SUDHAKARAN C	II CSE	30	83	19	64	74
28	811218104030	SUGASINI.G	II CSE	30	83	19	64	74
29	811218104031	VAISHNAVI G	II CSE	30	100	22	88	94
30	811218104032	VIGNA SRI S	II CSE	28	92	18	72	82
31	811218104033	VIJAYA DHARANI K	II CSE	28	100	22	88	94
32	811218104034	VINOTHINI S	II CSE	30	100	22	88	94
33	811218104501	SIVASANGARI C	II CSE	30	92	20	80	86
34	811217104001	AARTHI J	III/CSE	28	92	20	80	86
35	811217104002	DEEPIKA N	III/CSE	28	100	22	88	94
36	811217104003	DHANALAKSHMI R	III/CSE	28	92	20	80	86
37	811217104004	GOATHAR FATHIMA S	III/CSE	30	92	20	80	86
38	811217104005	GOWTHAM RAAJ K	III/CSE	30	100	22	88	94
39	811217104007	JAYA PRATHA A	III/CSE	30	92	20	80	86
40	811217104008	JICKSON S	III/CSE	25	92	20	80	86



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Principal
Indra Ganesan College of Engineering
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Manikandam, Trichy-620 012.

41	811217104009	KAMATCHI V	III/CSE	30	100	22	88	94
42	811217104010	KOKILA V	III/CSE	27	92	20	80	86
43	811217104011	LAKSHMI PRIYA M	III/CSE	27	92	20	80	86
44	811217104012	NAVEEN R	III/CSE	27	92	20	80	86
45	811217104013	PANNEER SELVAM R	III/CSE	30	100	22	88	94
46	811217104014	PRINCY DEEPA X	III/CSE	30	92	20	80	86
47	811217104015	RAGHUL L	III/CSE	30	92	20	80	86
48	811217104016	SALMA BANU M	III/CSE	29	100	22	88	94
50	811217104017	SEEBIKA M	III/CSE	29	92	20	80	86
51	811217104019	SIVASANKARI S	III/CSE	29	92	20	80	86
52	811217104020	SWATHI M	III/CSE	27	100	22	88	94
53	811217104022	VASUKI M	III/CSE	27	92	20	80	86
54	811217104023	YOKESH KANNAN P H	III/CSE	27	92	20	80	86
55	811216104002	ANJALADEVI J	IV/CSE	27	92	20	80	86
56	811216104003	APARNA S	IV/CSE	28	92	20	80	86
57	811216104004	ARCHANA T	IV/CSE	28	100	22	88	94



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

58	811216104005	BAKKIYA V	IV/CSE	28	92	20	80	86
59	811216104007	BANUMATHI D	IV/CSE	30	92	20	80	86
60	811216104008	DHANUSH S	IV/CSE	30	92	20	80	86
61	811216104009	DHIVYA B	IV/CSE	29	92	16	64	78
62	811216104010	DIVYA R	IV/CSE	29	92	16	64	78
63	811216104011	GANESHKUMAR A	IV/CSE	29	100	20	80	90
64	811216104012	GOBALA KRISHNAN R	IV/CSE	29	92	20	80	86
65	811216104013	GUNASEKAR P	IV/CSE	28	100	22	88	94
66	811216104014	JOTHIKA R	IV/CSE	28	92	17	68	80
67	811216104015	KARTHIKEYAN J	IV/CSE	30	92	19	76	84
68	811216104016	KEERTHANA K	IV/CSE	29	92	19	76	84
69	811216104017	KEERTHANA P(490725)	IV/CSE	29	100	20	80	90
70	811216104018	KIRUBAKARAN M	IV/CSE	30	83	16	64	74
71	811216104019	KIRUTHIKA R	IV/CSE	30	83	16	64	74
72	811216104020	MEENAKSHI S	IV/CSE	28	100	22	88	94
73	811216104021	NAVEEN K	IV/CSE	28	92	18	72	82



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Dr. G. Balakrishnan M.Tech
Principal
Indra Ganesan College
Manikandam, Trichy

74	811216104022	NAVEENKUMAR S	IV/CSE	28	92	16	64	78
75	811216104023	NEROSON KIOSUS N	IV/CSE	28	92	16	64	78
76	811216104024	PAVITHRA.G	IV/CSE	28	100	20	80	90
77	811216104026	PAVITHRA.R	IV/CSE	29	92	20	80	86
78	811216104027	PRABAHAR R	IV/CSE	30	100	22	88	94
79	811216104028	RACIKA R	IV/CSE	30	92	17	68	80
80	811216104029	RAHUL S	IV/CSE	30	92	19	76	84
81	811216104030	REVATHI N	IV/CSE	27	92	19	76	84
82	811216104031	SARANYA A	IV/CSE	27	100	20	80	90
83	811216104032	SARANYA M	IV/CSE	30	83	16	64	74
84	811216104033	SARAVANAN M	IV/CSE	30	83	16	64	74
85	811216104034	SHARUN PRABU A	IV/CSE	27	100	22	88	94
86	811216104035	SOUNDHARYA J	IV/CSE	28	92	18	72	82
87	811216104036	TAMILSELVAM M	IV/CSE	28	92	16	64	78
88	811216104038	THARIK A	IV/CSE	29	92	16	64	78
89	811216104039	VARSHA S	IV/CSE	29	100	20	80	90



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(Signature)

Dr. G. Balakrishnan
P. ... D.,
Indra Ganesan Co
IG Valley, Mad
Manikandam, Tr

90	811216104040	VIGNESHWARACHARI S	IV/CSE	29	92	16	64	78
91	811216104041	VIJAYALAKSHMI M	IV/CSE	27	100	20	80	90
92	811216104042	VIJAYALAKSHMI P	IV/CSE	27	92	20	80	86
93	811216104043	VINITHA M	IV/CSE	30	100	22	88	94
94	811216104044	VINITHA DEVI P	IV/CSE	30	92	17	68	80
95	811216104045	YOGESHWARAN S	IV/CSE	27	92	19	76	84
96	811216104046	YUVASRI T	IV/CSE	28	92	19	76	84
97	811218405001	ASWINI M	II/ME	28	100	20	80	90
98	811218405002	GWENDOLYN ROSETTA G	II/ME	29	83	16	64	74
99	811218405004	NIRMALA N	II/ME	29	83	16	64	74

(Signature)
VAC Coordinator

(Signature)
HoD/CSE



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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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 = $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$


VAC Coordinator


HoD/CSE


Principal



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



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Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli- 620 012
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Report on Value Added Course

Title: **AGUMENTED REALITY AND VIRTUAL REALITY**

Resource Person: **Mrs. Sankari, Project Manager
Flink Technologies, Kumbakonam**

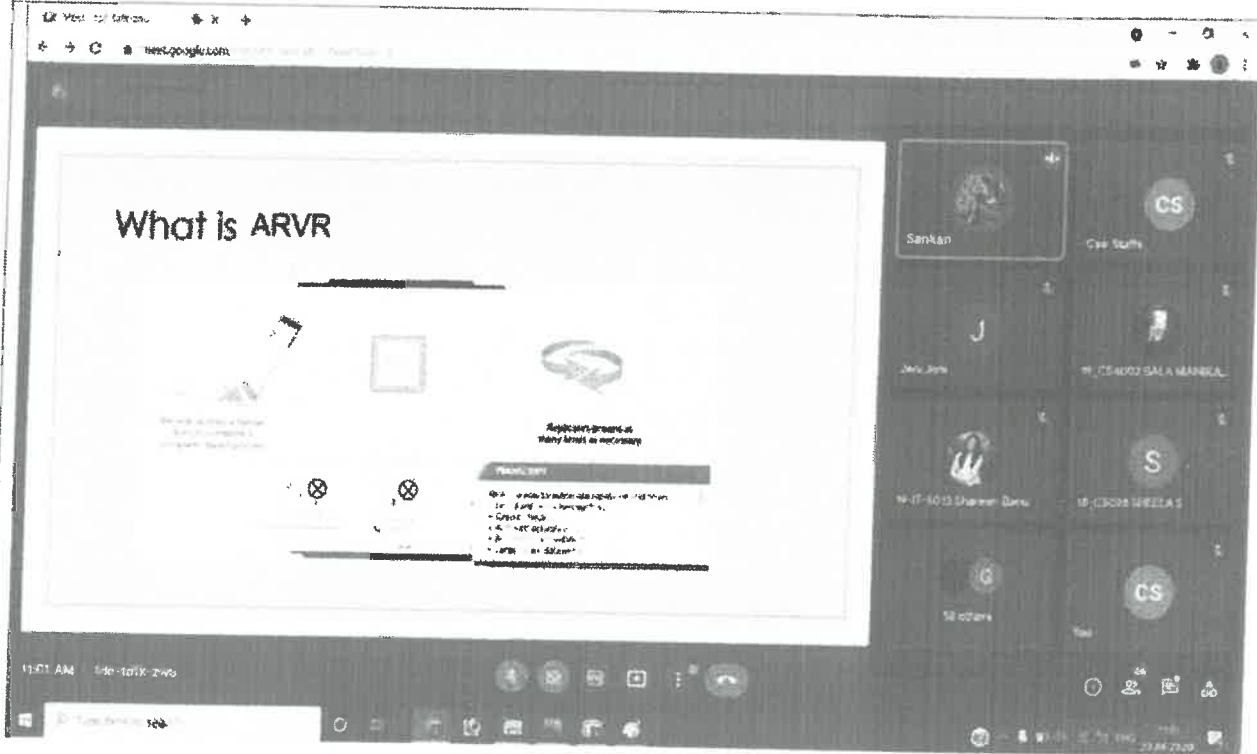
Date of conduct from : **22.06.2020** To: **26.06.2020** Duration: **30 Hours**

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**

Sample Photo




VAC Coordinator


HoD/CSE


Principal


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



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **ASWINI M** of
..... **II.YEAR.M.E.CSE** has successfully completed the Value Added Course on
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.

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.

Principal
IGCE



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms.**RAMYA R**..... of
.....**II.YEAR.CSE**..... has successfully completed the Value Added Course on
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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-620 019.

Principal
IGCE



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms.**MUTHAIYA P**..... of
.....**II.YEAR.CSE**..... has successfully completed the Value Added Course on
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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.

Principal
IGCE



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms.**MAHENDRAN S**..... of
.....**II.YEAR.CSE**..... has successfully completed the Value Added Course on
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.

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.

Principal
IGCE



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This is to certify that Mr/Ms. **JOSHI DAYANA K**..... of
..... **II.YEAR.CSE**..... has successfully completed the Value Added Course on
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22nd Jun 2020 TO 26th Jun 2020 during the Academic Year 2019-2020.

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.

Principal
IGCE



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **DHARSHINI A** of
..... **II.YEAR.CSE** has successfully completed the Value Added Course on
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Flink Technologies
Mrs. Sankari, Project Manager

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

Principal
IGCE



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **AJITH KUMAR R** of
..... **II.YEAR.CSE** has successfully completed the Value Added Course on
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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.

Principal
IGCE



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CERTIFICATE OF PARTICIPATION

*This is to certify that Mr/Ms.**PANEERSELVAM R**..... of
.....**III YEAR CSE**..... has successfully completed the Value Added Course on
AGUMENTED REALITY AND VIRTUAL REALITY organized by Department of Computer
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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.

Principal
IGCE



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This is to certify that Mr/Ms. **SEEBIKA M** of
..... **III YEAR CSE** has successfully completed the Value Added Course on
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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.

Principal
IGCE



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **JAYAPRATHA.A**..... of
..... **III YEAR CSE**..... has successfully completed the Value Added Course on
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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.

Principal
IGCE



Indra Ganesan

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

This is to certify that Mr/Ms. **LAKSHMI PRIYA M** of
..... **III YEAR CSE** has successfully completed the Value Added Course on
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Science and Engineering and IQAC of our Institution in Association with Flink Technologies from
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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.

Principal
IGCE



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms.**GOATHAR FATHIMA S**..... of
.....**III YEAR CSE**..... has successfully completed the Value Added Course on
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22nd Jun 2020 TO 26th Jun 2020 during the Academic Year 2019-2020.

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.

Principal
IGCE



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

This is to certify that Mr/Ms.**AARTHI J**..... of
.....**III YEAR CSE**..... has successfully completed the Value Added Course on
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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.

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-620 037.

Principal
IGCE



Indra Ganesan

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

This is to certify that Mr/Ms. **NAVEEN KUMAR S** of
..... **IV.YEAR.CSE** has successfully completed the Value Added Course on
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Flink Technologies
Mrs. Sankari, Project Manager

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

Indra Ganesan College of Engineering
IG Vailey, Madurai Main Road
Manikandam, Trichy-620 032.

Principal
IGCE



Indra Ganesan

COLLEGE OF ENGINEERING
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms.**GUNASEKAR.P**..... of
.....**IV.YEAR.CSE**..... has successfully completed the Value Added Course on
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.

Flink Technologies
Mrs. Sankari, Project Manager

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

Principal
IGCE



Indra Ganesan

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



CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms.**GANESHKUMAR A**..... of
.....**IV.YEAR.CSE**..... has successfully completed the Value Added Course on
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.

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.

Principal
IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

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

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This is to certify that Mr/Ms.**DHANUSH S**..... of
.....**IV.YEAR.CSE**..... has successfully completed the Value Added Course on
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Flink Technologies

Mrs. Sankari, Project Manager

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

Principal

Indra Ganesan Collage of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

Principal

IGCE



Indra Ganesan

COLLEGE OF ENGINEERING

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

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms.**ANJALADEVI J**..... of
.....**IV.YEAR.CSE**..... has successfully completed the Value Added Course on
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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.

Principal
IGCE



Indra Ganesan

COLLEGE OF ENGINEERING
Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **MEENAKSHI S** of
..... **IV.YEAR.CSE** has successfully completed the Value Added Course on
AGUMENTED REALITY AND VIRTUAL REALITY organized by Department of Computer
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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.

Principal
IGCE