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 INFORMATION TECHNOLOGY

ACADEMIC YEAR 2022-2023/ 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 successfullycompleted during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed onlinecourses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the lastfive years

VAC Title:	**Application of Image Processing in Information Technology**
Resource Person:	**Mr. Azmann** **Managing Director,** **Uniq Technologies**

Date of conduct from:	**28.03.2023**	**To:**	**01.04.2023**	**Duration:**	**30 Hours**
Organized Department:	**INFORMATION TECHNOLOGY**				
Participant Year:	**IT IV,III,II**	**Semester:**	**EVEN**	**No. of Students Registered:**	**90**
Venue:	**IT Seminar Hall**				

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Department of Information Technology

Academic Year 2022-2023 –EVEN Semester

25.03.2023

DEPARTMENT CIRCULAR

Department of **Information Technology** and IQAC of IGCE in association with **Uniq Technologies** is going to organize Value Added Course for all Second, Third and Final year students on ''**Application of Image Processing in Information Technology**'' from 28.03.2023 to 01.04.2023 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 Detail	1.Mr. Azmann Managing Director, **Uniq Technologies** 2.Mr.Madhesh Project Manager **Uniq Technologies**
Venue	IT Seminar Hall, IGCE

HOD/IT

PRINCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- Class In charges - II, III & IV-Year
- II, III & IV-Year IT Students
- Office File
- Notice Board

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

Value Added Course

"Application of Image Processing in Information Technology"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Image Processing	3	28.03.2023
2	Frequency domain transformation techniques and their properties.	3	28.03.2023
3	Gray-level mapping, non-liner graylevel mapping	3	29.03.2023
4	Color image processing	3	29.03.2023
5	The Unsupervised Clustering Algorithm	3	30.03.2023
6	Neural Networks , Deep Learning- Overview	3	30.03.2023
7	Edge detection and image sharpening	3	31.03.2023
8	image sensor and digital image formation	3	31.03.2023
9	Need for data compression, Huffman, Run Length Encoding	3	01.04.2023
10	Recognition based on matching	2	01.04.2023
11	Exam	1	01.04.2023
	Total Hours (Excluding Exam)	30	-

VAC Coordinator

HOD/IT

Dr. G. Balakrishnan, M.E., Ph.D.,
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Value Added Course

"Application of Image Processing in Information Technology"

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

STUDENTS PARTICIPATION LIST

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
1	811219205001	Akash V	IV/IT
2	811219205002	Akilandeswari J	IV/IT
3	811219205003	Aravindhan R	IV/IT
4	811219205004	Chitra Bharathy M	IV/IT
5	811219205005	Jeevitha M	IV/IT
6	811219205006	Kaviya K	IV/IT
7	811219205008	Libia Pojathsiyu C	IV/IT
8	811219205009	Mageshwaran M	IV/IT
9	811219205011	Ranjith M	IV/IT
10	811219205012	Ranjith kumar A	IV/IT
11	811219205013	Shareen Banu M R	IV/IT
12	811219205014	Shobana K	IV/IT
13	811219205015	Sivaranjani P	IV/IT
14	811219205016	Sowmiya P	IV/IT
15	811219205017	Surya A	IV/IT
16	811219205018	Swetha S	IV/IT
17	811219205019	Tamil selvi T	IV/IT
18	811219205020	Vijaya kumar M	IV/IT
19	811219205021	Visalini P	IV/IT
20	811219205501	Karthick A	IV/IT
21	811220205002	Aiswariya V	III/IT
22	811220205004	Anbazhagan S	III/IT
23	811220205005	Balamohan R	III/IT
24	811220205006	Benny A	III/IT
25	811220205007	Boomika P	III/IT
26	811220205008	Charulatha B	III/IT
27	811220205009	Chiranjeevi V	III/IT
28	811220205011	Dinesh M	III/IT
29	811220205012	Gowtham B	III/IT
30	811220205014	Hariharan S	III/IT
31	811220205015	Hemalatha G	III/IT
32	811220205016	Jeeva M	III/IT
33	811220205018	Keerthana S	III/IT

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
34	811220205019	Kirubhashree D	III/IT
35	811220205020	Krishnan N	III/IT
36	811220205021	Magesh G	III/IT
37	811220205022	Mahasuvetha M	III/IT
38	811220205023	Manikandan M	III/IT
39	811220205024	Meenatchi A	III/IT
40	811220205025	Mohanapriya K	III/IT
41	811220205026	Monisha A	III/IT
42	811220205027	Murugesan K	III/IT
43	811220205029	Pragathi R	III/IT
44	811220205030	Priyanga K	III/IT
45	811220205032	Rajeswari S	III/IT
46	811220205035	Rasika A	III/IT
47	811220205036	Ravikumar M	III/IT
48	811220205037	Sabinath K	III/IT
49	811220205039	Sharmi A	III/IT
50	811220205040	Sheik Abdulla H	III/IT
51	811220205042	Soundarya V	III/IT
52	811220205043	Sriram C	III/IT
53	811220205044	Suganya G	III/IT
54	811220205045	Sushmeetha A	III/IT
55	811220205046	Thanasekaran S	III/IT
56	811220205047	Thasneem Begam Y	III/IT
57	811220205048	Thirumeni V	III/IT
58	811220205050	Yasika A	III/IT
59	811220205301	Dhanalakshmi V	III/IT
60	811220205302	Irfana Fathima J	III/IT
61	811220205303	Vaibhavilaxmi L	III/IT
62	811220205304	Vengatesan M	III/IT
63	811221205001	Angel Ebsiba.A	II/IT
64	811221205003	Asarudheen.K	II/IT
65	811221205004	Barakkath Nisha.S	II/IT
66	811221205005	Brundha.P	II/IT
67	811221205009	Dinesh.M	II/IT
68	811221205010	Gnanasamuel.A	II/IT
69	811221205013	Jai Surya.K	II/IT
70	811221205014	Jenani.R	II/IT
71	811221205015	Kannan.M	II/IT
72	811221205016	Karthik Raja.M	II/IT
73	811221205017	Kavin.J	II/IT
74	811221205018	Kayathri.S	II/IT
75	811221205019	Kishore.M	II/IT
76	811221205020	Lalitha.K	II/IT
77	811221205021	Madhan.S	II/IT

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S.NO	REG NO	STUDENTS NAME	YEAR/BRANCH
78	811221205022	Manikandana.M	II/IT
79	811221205023	Mohamed Anas.J	II/IT
80	811221205024	Mohamed Aslam.S	II/IT
81	811221205025	Monika Sri.B	II/IT
82	811221205029	Prasanna.M	II/IT
83	811221205032	Santhosh Kumar.P	II/IT
84	811221205033	Sathish Kannan.S	II/IT
85	811221205034	Sebasthiyan.S	II/IT
86	811221205035	Stephen.S	II/IT
87	811221205036	Subhashini.M	II/IT
88	811221205037	Subasri.M	II/IT
89	811221205038	Sujhin.R	II/IT
90	811221205039	Sumitha.A	II/IT

VAC Coordinator

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HOD/IT

REPORT ON VALUE ADDED COURSE

Title:	""Application of Image Processing in Information Technology"	
Resource Person:	.Mr. Azmann **Managing Director,** **UniqTechnologies**	Mr.Madhesh Project Manager **UniqTechnologies**

Date of conduct from :	28.03.2023	To:	01.04.2023	Duration:	**30 Hours**	
Organized Department :	**Information Technology**					
Participant Year:	**2,3,4**			No. of Students Registered :		90
Venue:	**IT Seminar Hall**					

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

- Build by familiar with digital image fundamentals
- Images that are seen and acquired in everyday life have a number of very interesting properties.
- Properties are a key to developing efficient and accurate algorithms for a variety of applications such as image noise removal, blur removal, image separation .
- Explore some key theory including the proofs of some truly beautiful theorems, algorithms, as well as many applications.
- Expose students to a broad range of modern, state-of-the-art techniques in image processing.

Assessment Process

- Students, who are securing **more than 70% on total score** and secured more than 75% inattendance 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

HoD/IT

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,
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SAMPLE PHOTOS OF VALUE ADDED COURSE

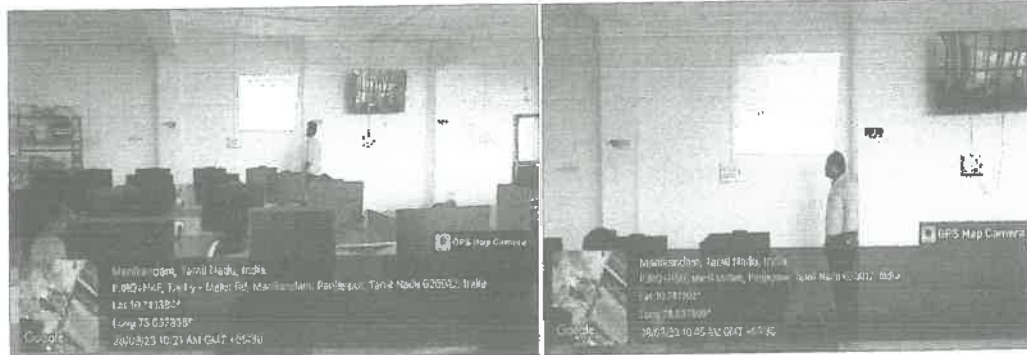| Title:	""'Application of Image Processing in Information Technology"		
Resource Person:	.Mr. Azmann Managing Director, UniqTechnologies	Mr.Madhesh Project Manager UniqTechnologies	
Date of conduct from :	28.03.2023	To: 01.04.2023	Duration: 30 Hours
Organized Department :	Information Technology		
Participant Year: 2,3,4		No. of Students Registered : 90	
Venue:	IT Seminar Hall		

Sample Photos:

VAC Coordinator

HoD/IT

Principal

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Department of Information Technology

Academic Year 2022-2023 –EVEN Semester

STUDENTS ATTENDANCE LIST

Value Added Course

"Application of Image Processing in Information Technology"

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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	28.03.2023 FN	28.03.2023 AN	29.03.2023 FN	29.03.2023 AN	30.03.2023 FN	30.03.2023 AN	31.03.2023 FN	31.03.2023 AN	01.04.2023 FN	01.04.2023 AN	NO OF SESSIONS ATTENDED	SIGN OF THE STUDENT
1	811219205001	Akash V	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Akash .V
2	811219205002	Akilandeswari J	IV/IT	A	✓	A	✓	✓	✓	✓	✓	✓	✓	8	akila...
3	811219205003	Aravindhan R	IV/IT	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	9	
4	811219205004	Chitra Bharathy M	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	
5	811219205005	Jeevitha M	IV/IT	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	9	Jeevitha
6	811219205006	Kaviya K	IV/IT	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	9	Kaviya
7	811219205008	Libia Pojathsiyu C	IV/IT	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	9	
8	811219205009	Mageshwaran M	IV/IT	✓	✓	✓	A	A	✓	✓	✓	✓	✓	8	
9	811219205011	Ranjith M	IV/IT	✓	✓	✓	✓	✓	✓	A	A	✓	✓	8	Ranjith
10	811219205012	Ranjith kumar A	IV/IT	✓	✓	✓	✓	A	A	✓	✓	✓	✓	8	
11	811219205013	Shareen Banu M R	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Shareen
12	811219205014	Shobana K	IV/IT	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	9	Shobana
13	811219205015	Sivaranjani P	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	
14	811219205016	Sowmiya P	IV/IT	✓	✓	A	A	✓	✓	✓	✓	✓	✓	8	

S. NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	28.03.2023		29.03.2023		30.03.2023		31.03.2023		01.04.2023		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
15	811219205017	Surya A	IV/IT	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	9	
16	811219205018	Swetha S	IV/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Swetha
17	811219205019	Tamil selvi T	IV/IT	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	9	
18	811219205020	Vijaya kumar M	IV/IT	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	9	Vijay
19	811219205021	Visalini P	IV/IT	✓	A	A	✓	✓	✓	✓	✓	✓	✓	8	
20	811219205501	Karthick A	IV/IT	✓	✓	✓	A	A	✓	✓	✓	✓	✓	8	
21	811220205002	Aiswariya V	III/IT	✓	✓	✓	✓	A	A	✓	✓	✓	✓	8	
22	811220205004	Anbazhagan S	III/IT	✓	✓	✓	✓	✓	✓	A	A	✓	✓	8	
23	811220205005	Balamohan R	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Bala
24	811220205006	Benny A	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Benny
25	811220205007	Boomika P	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	
26	811220205008	Charulatha B	III/IT	✓	✓	✓	✓	✓	A	A	✓	✓	✓	8	Charu
27	811220205009	Chiranjeevi V	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Dinesh
28	811220205011	Dinesh M	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	
29	811220205012	Gowtham B	III/IT	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	9	
30	811220205014	Hariharan S	III/IT	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	9	Hari
31	811220205015	Hemalatha G	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	
32	811220205016	Jeeva M	III/IT	✓	✓	✓	✓	A	✓	A	✓	✓	✓	8	Jeeva
33	811220205018	Keerthana S	III/IT	✓	✓	✓	✓	A	✓	A	✓	✓	✓	8	
34	811220205019	Kirubhashree D	III/IT	✓	✓	✓	✓	A	✓	A	✓	✓	✓	8	Kiruba
35	811220205020	Krishnan N	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Krish
36	811220205021	Magesh G	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Magesh

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
37	811220205022	Mahasuvetha M	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Mahasuvetha
38	811220205023	Manikandan M	III/IT	✓	✓	✓	✓	✓	✓	A	A	✓		8	m.manikandan
39	811220205024	Meenatchi A	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	meena
40	811220205025	Mohanapriya K	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	mohanapriya
41	811220205026	Monisha A	III/IT	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	9	Moni
42	811220205027	Murugesan K	III/IT	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	9	Murugesan
43	811220205029	Pragathi R	III/IT	✓	✓	✓	✓	✓	✓	✓				10	Pragathi
44	811220205030	Priyanga K	III/IT	✓	✓	✓	A	A	✓	✓	✓	✓	✓	8	Priyanka
45	811220205032	Rajeswari S	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	A	A	8	Raji
46	811220205035	Rasika A	III/IT	✓	✓	✓	✓	✓	A	A	✓	✓	✓	8	Rasi
47	811220205036	Ravikumar M	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Ravi
48	811220205037	Sabinath K	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Sabina
49	811220205039	Sharmi A	III/IT	✓	✓	✓	A	A	✓	✓	✓	✓	✓	8	Sharmi
50	811220205040	Sheik Abdulla H	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	9	Sheik Abdulla
51	811220205042	Soundarya V	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Soundarya
52	811220205043	Sriram C	III/IT	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	9	Sriram
53	811220205044	Suganya G	III/IT	✓	✓	✓	✓	✓	✓	A	A	✓		8	Suganya
54	811220205045	Sushmeetha A	III/IT	✓	✓	✓	✓	A	✓	✓	✓	✓		9	Sush
55	811220205046	Thanasekaran S	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓		10	Thanase
56	811220205047	Thasneem Begam Y	III/IT	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	9	Thasneem
57	811220205048	Thirumeni V	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Thiru
58	811220205050	Yasika A	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Yasika
59	811220205301	Dhanalakshmi V	III/IT	✓	✓		✓	✓	✓	✓	✓	✓	✓	10	Dhanalakshmi

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
60	811220205302	Irfana Fathima J	III/IT	✓	✓	✓	✓	✓		✓	✓	✓	✓	10	Irfana Fathima.
61	811220205303	Vaibhavilaxmi L	III/IT	✓	✓	✓	✓	✓		✓	(A)	✓	✓	9	L.vaibhavxmi'
62	811220205304	Vengatesan M	III/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	(A)	9	Vengatesan M
63	811221205001	Angel Ebsiba.A	II/IT	✓	✓	✓	✓		✓	✓	✓	✓	✓	10	Angel.A.
64	811221205003	Asarudheen.K	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Asar
65	811221205004	Barakkath Nisha.S	II/IT	✓	✓	✓	✓	✓		✓	✓	✓	✓	10	பரக்கத். நி
66	811221205005	Brundha.P	II/IT	✓	✓	✓	✓	✓	✓	(A)	✓	✓	✓	9	Brundha
67	811221205009	Dinesh.M	II/IT	✓	✓	✓	✓	✓		✓		✓	✓	10	DINesh
68	811221205010	Gnanasamuel.A	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Sam.A
69	811221205013	Jai Surya.K	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Jaisurya.k
70	811221205014	Jenani.R	II/IT	✓		✓	✓	✓	✓	✓	✓	✓	✓	10	R Jenani.
71	811221205015	Kannan.M	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Kanan.
72	811221205016	Karthik Raja.M	II/IT	✓	✓	✓	✓	✓	✓	(A)	✓	✓	✓	9	Parth
73	811221205017	Kavin.J	II/IT	✓	✓	✓	✓	✓		✓	✓	✓	✓	10	Kf
74	811221205018	Kayathri.S	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Kayathri
75	811221205019	Kishore.M	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Kishore
76	811221205020	Lalitha.K	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	2olitha k.
77	811221205021	Madhan.S	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Madhan
78	811221205022	Manikandana.M	II/IT	✓	✓	✓	✓	(A)	(A)	✓	✓	✓	✓	8	Mani .m
79	811221205023	Mohamed Anas.J	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Md A
80	811221205024	Mohamed Aslam.S	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Mhd Aslam s
81	811221205025	Monika Sri.B	II/IT	✓	✓	✓	✓	✓	✓	✓	(A)	✓	✓	9	Monie sri.s
82	811221205029	Prasanna.M	II/IT	✓	✓	✓	✓	✓	✓	✓	(A)	(A)	(A)	8	Prasanna.
83	811221205032	Santhosh Kumar.P	II/IT	✓	✓	✓	✓	✓	(A)	(A)	✓	✓	✓	8	Santhoshkumar
84	811221205033	Sathish Kannan.S	II/IT	✓	✓	✓	✓	✓	✓		✓	✓	✓	10	S.Sathish kannan
85	811221205034	Sebasthiyan.S	II/IT	✓	✓	✓	✓	✓	✓	✓	(A)	✓		9	S

Indra Ganesan
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S.NO	REG NO	STUDENTS NAME	YEAR/BRANCH	28.03.2023 FN	28.03.2023 AN	29.03.2023 FN	29.03.2023 AN	30.03.2023 FN	30.03.2023 AN	31.03.2023 FN	31.03.2023 AN	01.04.2023 FN	01.04.2023 AN	NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
86	811221205035	Stephen.S	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Stephen.S
87	811221205036	Subhashini.M	II/IT	✓	✓	✓	✓	✓	✓	A	A	✓	✓	8	m.subashni
88	811221205037	Subasri.M	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	m.subash
89	811221205038	Sujhin.R	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	A	A	8	Sujhin
90	811221205039	Sumitha.A	II/IT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10	Sumitha

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VAC Coordinator

HoD/IT

Name of the Student: Akash.V

AU Register Number: 8112192005001

Year/Sem: IV

Value Added Course

"Application of Image Processing in Information Technology"

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

1. What is Digital Image Processing?

a) It's an application that alters digital videos

b) It's a software that allows altering digital pictures

c) It's a system that manipulates digital medias

d) It's a machine that allows altering digital images

2. Which of the following process helps in Image enhancement?

a) Digital Image Processing

b) Analog Image Processing

c) Both a and b

d) None of the above

3. Among the following, functions that can be performed by digital image processing is?
a) Fast image storage and retrieval
b) Controlled viewing
c) Image reformatting
d) All of the above

4. Which of the following is an example of Digital Image Processing?
a) Computer Graphics
b) Pixels
c) Camera Mechanism
d) All of the mentioned

5. What are the categories of digital image processing?
a) Image Enhancement
b) Image Classification and Analysis
c) Image Transformation
d) All of the mentioned

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6. How does picture formation in the eye vary from image formation in a camera?
a) Fixed focal length
b) Varying distance between lens and imaging plane
c) No difference
d) Variable focal length

7. What are the names of the various colour image processing categories?
a) Pseudo-color and Multi-color processing
b) Half-color and pseudo-color processing
c) Full-color and pseudo-color processing
d) Half-color and full-color processing

8. Which characteristics are taken together in chromaticity?
a) Hue and Saturation
b) Hue and Brightness
c) Saturation, Hue, and Brightness
d) Saturation and Brightness

9. Which of the following statement describe the term pixel depth?
a) It is the number of units used to represent each pixel in RGB space
b) It is the number of mm used to represent each pixel in RGB space
c) It is the number of bytes used to represent each pixel in RGB space
d) It is the number of bits used to represent each pixel in RGB space

10. The aliasing effect on an image can be reduced using which of the following methods?
a) By reducing the high-frequency components of image by clarifying the image
b) By increasing the high-frequency components of image by clarifying the image
c) By increasing the high-frequency components of image by blurring the image
d) By reducing the high-frequency components of image by blurring the image

11. Which of the following is the first and foremost step in Image Processing?
a) Image acquisition
b) Segmentation
c) Image enhancement
d) Image restoration

12. Which of the following image processing approaches is the fastest, most accurate, and flexible?
a) Photographic
b) Electronic
c) Digital
d) Optical

13. Which of the following is the next step in image processing after compression?
a) Representation and description
b) Morphological processing
c) Segmentation
d) Wavelets

14. _____ determines the quality of a digital image.
a) The discrete gray levels
b) The number of samples
c) discrete gray levels & number of samples
d) None of the mentioned

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15. Image processing involves how many steps?
a) 7
b) 8
c) 13
d) 10

16. Which of the following is the abbreviation of JPEG?
a) Joint Photographic Experts Group
b) Joint Photographs Expansion Group
c) Joint Photographic Expanded Group
d) Joint Photographic Expansion Group

17. Which of the following is the role played by segmentation in image processing?
a) Deals with property in which images are subdivided successively into smaller regions
b) Deals with partitioning an image into its constituent parts or objects
c) Deals with extracting attributes that result in some quantitative information of interest
d) Deals with techniques for reducing the storage required saving an image, or the bandwidth required transmitting it

18. The digitization process, in which the digital image comprises M rows and N columns, necessitates choices for M, N, and the number of grey levels per pixel, L. M and N must have which of the following values?
a) M have to be positive and N have to be negative integer
b) M have to be negative and N have to be positive integer
c) M and N have to be negative integer
d) M and N have to be positive integer

19. Which of the following tool is used in tasks such as zooming, shrinking, rotating, etc.?
a) Filters
b) Sampling
c) Interpolation
d) None of the Mentioned

20. he effect caused by the use of an insufficient number of intensity levels in smooth areas of a digital image

a) False Contouring
b) Interpolation
c) Gaussian smooth
d) Contouring

21. What is the procedure done on a digital image to alter the values of its individual pixels known as?
a) Geometric Spacial Transformation
b) Single Pixel Operation
c) Image Registration
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22. Points whose locations are known exactly in the input and reference images are used in Geometric Spacial Transformation.
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b) Key-points
c) Réseau points
d) Tie points

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23. _____ is a commercial use of Image Subtraction.
a) MRI scan
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Name of the Student: M eenatchi. A   **Year/Sem:** III

AU Register Number: 811220205024

Value Added Course

"Application of Image Processing in Information Technology"

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

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Name of the Student: Year/Sem:

AU Register Number:

Value Added Course

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Value Added Course

"Application of Image Processing in Information

ANSWER KEY

1	b	6	d	11	a	16	a	21	b
2	c	7	c	12	c	17	b	22	d
3	d	8	a	13	b	18	d	23	c
4	d	9	d	14	c	19	c	24	a
5	d	10	d	15	d	20	a	25	b

VAC Coordinator

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Department of Information Technology

Academic Year 2022-2023 – Even Semester

VALUE ADDED COURSE ASSESMENT SHEET

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IG Valley, Madurai Main Road
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"Application of Image Processing in Information Technology"

S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	811219205001	Akash V	IV/IT	30	100	20	80	90
2	811219205002	Akilandeswari J	IV/IT	24	83	15	60	72
3	811219205003	Aravindhan R	IV/IT	27	100	19	76	88
4	811219205004	Chitra Bharathy M	IV/IT	30	100	22	88	94
5	811219205005	Jeevitha M	IV/IT	27	92	18	72	82
6	811219205006	Kaviya K	IV/IT	27	92	17	68	80
7	811219205008	Libia Pojathsiyu C	IV/IT	27	100	18	72	86
8	811219205009	Mageshwaran M	IV/IT	24	83	17	68	76
9	811219205011	Ranjith M	IV/IT	24	92	16	64	78
10	811219205012	Ranjith kumar A	IV/IT	24	92	16	64	78
11	811219205013	Shareen Banu M R	IV/IT	30	100	20	80	90

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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
12	811219205014	Shobana K	IV/IT	27	92	17	68	80
13	811219205015	Sivaranjani P	IV/IT	30	100	20	80	90
14	811219205016	Sowmiya P	IV/IT	24	83	15	60	72
15	811219205017	Surya A	IV/IT	27	100	19	76	88
16	811219205018	Swetha S	IV/IT	30	100	22	88	94
17	811219205019	Tamil selvi T	IV/IT	27	92	18	72	82
18	811219205020	Vijaya kumar M	IV/IT	27	92	17	68	80
19	811219205021	Visalini P	IV/IT	24	100	18	72	86
20	811219205501	Karthick A	IV/IT	24	83	17	68	76
21	811220205002	Aiswariya V	III/IT	24	92	16	64	78
22	811220205004	Anbazhagan S	III/IT	24	92	16	64	78
23	811220205005	Balamohan R	III/IT	30	100	20	80	90
24	811220205006	Benny A	III/IT	30	92	20	80	86
25	811220205007	Boomika P	III/IT	30	100	20	80	90
26	811220205008	Charulatha B	III/IT	24	83	15	60	72
27	811220205009	Chiranjeevi V	III/IT	30	100	19	76	88
28	811220205011	Dinesh M	III/IT	30	100	22	88	94
29	811220205012	Gowtham B	III/IT	27	92	18	72	82
30	811220205014	Hariharan S	III/IT	27	92	17	68	80

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S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
31	811220205015	Hemalatha G	III/IT	30	100	20	80	90
32	811220205016	Jeeva M	III/IT	24	83	17	68	76
33	811220205018	Keerthana S	III/IT	24	92	16	64	78
34	811220205019	Kirubhashree D	III/IT	24	92	16	64	78
35	811220205020	Krishnan N	III/IT	30	100	20	80	90
36	811220205021	Magesh G	III/IT	30	92	20	80	86
37	811220205022	Mahasuvetha M	III/IT	30	100	20	80	90
38	811220205023	Manikandan M	III/IT	24	83	15	60	72
39	811220205024	Meenatchi A	III/IT	30	100	19	76	88
40	811220205025	Mohanapriya K	III/IT	30	100	22	88	94
41	811220205026	Monisha A	III/IT	27	92	18	72	82
42	811220205027	Murugesan K	III/IT	27	92	17	68	80
43	811220205029	Pragathi R	III/IT	30	100	18	72	86
44	811220205030	Priyanga K	III/IT	24	83	17	68	76
45	811220205032	Rajeswari S	III/IT	24	92	16	64	78
46	811220205035	Rasika A	III/IT	24	92	16	64	78
47	811220205036	Ravikumar M	III/IT	30	100	20	80	90
48	811220205037	Sabinath K	III/IT	30	92	20	80	86
49	811220205039	Sharmi A	III/IT	24	83	15	60	72

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				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
50	811220205040	Sheik Abdulla H	III/IT	27	90	19	76	83
51	811220205042	Soundarya V	III/IT	30	100	20	80	90
52	811220205043	Sriram C	III/IT	27	90	19	76	83
53	811220205044	Suganya G	III/IT	24	80	21	84	82
54	811220205045	Sushmeetha A	III/IT	27	90	20	80	85
55	811220205046	Thanasekaran S	III/IT	30	100	21	84	92
56	811220205047	Thasneem Begam Y	III/IT	27	90	20	80	85
57	811220205048	Thirumeni V	III/IT	30	100	19	76	88
58	811220205050	Yasika A	III/IT	30	100	20	80	90
59	811220205301	Dhanalakshmi V	III/IT	30	100	21	84	92
60	811220205302	Irfana Fathima J	III/IT	30	90	21	84	87
61	811220205303	Vaibhavilaxmi L	III/IT	27	80	20	80	80
62	811220205304	Vengatesan M	III/IT	27	90	21	84	87
63	811221205001	Angel Ebsiba.A	II/IT	30	100	20	80	90

| S.NO | REG NO | STUDENTS NAME | YEAR/ BRANCH | Attendance Details | Attendance Details | VAC-MCQ TEST | VAC-MCQ TEST | OVERALL MARK(100) |
				No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100)(B)	(50% of A + 50% of B)
64	811221205003	Asarudheen.K	II/IT	30	92	17	68	87
65	811221205004	Barakkath Nisha.S	II/IT	30	100	20	80	90
66	811221205005	Brundha.P	II/IT	27	83	15	60	72
67	811221205009	Dinesh.M	II/IT	30	100	19	76	88
68	811221205010	Gnanasamuel.A	II/IT	30	100	22	88	94
69	811221205013	Jai Surya.K	II/IT	30	92	18	72	82
70	811221205014	Jenani.R	II/IT	30	92	17	68	80
71	811221205015	Kannan.M	II/IT	30	100	18	72	86
72	811221205016	Karthik Raja.M	II/IT	27	83	17	68	76
73	811221205017	Kavin.J	II/IT	30	92	16	64	78
74	811221205018	Kayathri.S	II/IT	30	92	16	64	78
75	811221205019	Kishore.M	II/IT	30	100	20	80	90
76	811221205020	Lalitha.K	II/IT	30	92	20	80	86
77	811221205021	Madhan.S	II/IT	30	100	20	80	90
78	811221205022	Manikandana.M	II/IT	24	83	15	60	72
79	811221205023	Mohamed Anas.J	II/IT	30	100	19	76	88
80	811221205024	Mohamed Aslam.S	II/IT	30	100	22	88	94
81	811221205025	Monika Sri.B	II/IT	27	92	18	72	82
82	811221205029	Prasanna.M	II/IT	24	92	17	68	80
83	811221205032	Santhosh Kumar.P	II/IT	24	92	17	68	80
84	811221205033	Sathish Kannan.S	II/IT	30	100	20	80	90
85	811221205034	Sebasthiyan.S	II/IT	27	83	15	60	72
86	811221205035	Stephen.S	II/IT	30	100	19	76	88
87	811221205036	Subhashini.M	II/IT	24	92	17	68	80
88	811221205037	Subasri.M	II/IT	30	100	20	80	90
89	811221205038	Sujhin.R	II/IT	24	83	15	60	72
90	811221205039	Sumitha.A	II/IT	30	100	19	76	88

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This is to certify that Mr/Ms. ....Surya.A of ......Final year...-IT......has successfully completed the Value Added Course on "'**Application of Image Processing in Information Technology**"organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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This is to certify that Mr/Ms. .... **Akilandeswari J** of ......Final year...-IT......has successfully completed the Value Added Course on **"'Application of Image Processing in Information Technology"**organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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This is to certify that Mr/Ms. .... **Anbazhagan S of** ......Third year...-IT......has successfully completed the Value Added Course on **"'Application of Image Processing in Information Technology"**organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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This is to certify that Mr/Ms. .... **Boomika P** of ...... **Third year** ...-**IT**......has successfully completed the Value Added Course on "'**Application of Image Processing in Information Technology**"organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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This is to certify that Mr/Ms. .... **Gowtham B** of ......Third year...-**IT**......has successfully completed the Value Added Course on **"'Application of Image Processing in Information Technology"**organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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This is to certify that Mr/Ms. .... **Jeeva M** of ......**Third year...-IT**......has successfully completed the Value Added Course on "'**Application of Image Processing in Information Technology**"organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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This is to certify that Mr/Ms. .... **Krishnan N** of ......Third year...-IT......has successfully completed the Value Added Course on "'**Application of Image Processing in Information Technology**"organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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This is to certify that Mr/Ms. .... Lalitha.K of......Second year...-IT......has successfully completed the Value Added Course on "'**Application of Image Processing in Information Technology**"organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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This is to certify that Mr/Ms. .... **Mohamed Anas.J** of ......**Second year...-IT......**has successfully completed the Value Added Course on "'**Application of Image Processing in Information Technology**"organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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This is to certify that Mr/Ms. .... Prasanna.M of ......Second year...-IT......has successfully completed the Value Added Course on "'Application of Image Processing in **Information Technology**"organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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This is to certify that Mr/Ms. .... Subasri.M of ......Second year...-IT......has successfully completed the Value Added Course on "'**Application of Image Processing in Information Technology**"organized by Department of InformationTechnology and IQAC of our Institution in Association with **Uniq Technologies from 28th MARCH 2023 to 1st APRIL 2023 (5days)** during the Academic year 2022-2023.

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