

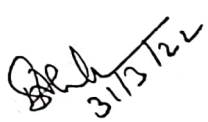
 Esld : 1984	KONGU ENGINEERING COLLEGE (Autonomous) PERUNDURAI – 638060 INTERNAL QUALITY ASSURANCE CELL	 CERT No. 99-100-20788 ISO 9001 : 2015
	Approval for Value Added Course (One / Two Credits)	

Academic Year: 2021 – 22 EVEN Semester

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 29.03.2022

1.	Academic Year	:	2021-22	Semester : ODD / EVEN		
2.	Course Title	:	OPENCV	Credit(s): One/ Two		
3.	Type of Course	:	Already Offered Course / Updated Course / New Course			
	• If "Already offered course",	:	Course Code:	Version:		
4.	Course Coordinator(s)	:	1. S.Mohana Saranya 2.S.Mohanapriya			
5.	Course offered by	:	Internal faculty / External experts			
6.	Name and designation of external resource persons	:	NA			
7.	Details about external organization	:	NA			
8.	Course fee for external experts	:	NA	Max. number of students/Batch	50	
		:			Course fee / student	
		:			Nil	
9.	No. of days	:	Period	No. of hours		
		:	From	To	Lecture	Practical
		:			Total	
	25	:	11.04.22	31.05.22	30	20
		:			50	
		:			Venue/ Meet ID	
		:			ITPark S05	
10.	Pre-requisites for offering the course	:	Python Programming			
11.	Course offered to	:	Programme	Branch	Year/Semester	
		:	B.E.	CSE	III/VI	
		:	B.E.	EEE	III/VI	
12.	Course Main Contents	:	Day 1	Introduction to Computer Vision, Introduction to images		
		:	Day 2	Installing OpenCV3 for Python 3 on Windows and reading and displaying images(Hands-on)		
		:	Day 3	Basic image operations: creating new image, cropping		
		:	Day4	Basic image operations: copying, resizing, masking		
		:	Day5	Performing basic image operations(Hands-on)		
		:	Day6	Arithmetic and logic operations on image		
		:	Day7	Performing arithmetic and logical Operations on Images (Hands-on)		

		Day8	Accessing camera												
		Day9	Image Annotation												
		Day10	Drawing geometric shapes and image annotation(Hands-on)												
		Day11	Displaying multiple Images with Matplotlib (Hands-on)												
		Day12	Building a Sunglass filter(Hands-on)												
		Day13	Image Enhancement and Filtering: color spaces – color transforms												
		Day14	Implementing image enhancement techniques(Hands-on)												
		Day15	Image filtering – image smoothing												
		Day16	Implementing image filtering techniques(Hands-on)												
		Day17	Edge detection - Image gradients												
		Day18	Performing edge detection(Hands-on)												
		Day19	Image Features and Image alignment – Image stitching												
		Day20	Demonstrating image features and Image alignment (Hands-on)												
		Day21	Image classification												
		Day22	Demonstrating image features and Image alignment												
		Day23	Object detection												
		Day24	Performing object detection												
		Day25	Face Recognition and Developing a simple face recognition application(Hands-on)												
		Assignment / Project / Case Study/Others: (if any)													
		Performing basic image operations, image analysis, and image recognition													
13.	Course Outcomes	:	After completing the course, the student will be able to: - describe and apply different operations to the image - Perform different annotations over images. - Apply different image enhancement and filtering techniques - Develop simple object recognition applications												
14.	Course Assessment (Min. 2)	:	<table><tr><th>S. No.</th><th>Type</th><th>Max. Marks</th></tr><tr><td>1</td><td>Multiple Choice Questions</td><td>50</td></tr><tr><td>2</td><td>Programming Assessment</td><td>50</td></tr><tr><td colspan="2">Total</td><td>100 Marks</td></tr></table>	S. No.	Type	Max. Marks	1	Multiple Choice Questions	50	2	Programming Assessment	50	Total		100 Marks
S. No.	Type	Max. Marks													
1	Multiple Choice Questions	50													
2	Programming Assessment	50													
Total		100 Marks													
15.	Verified that the content of this course is not offered to students partially/fully in the regular curriculum of respective programme of the student. Certify that the course content, credits, and grade are approved in the BOS meeting or approved by internal BOS members and will be ratified in the next BOS meeting		 (Signature of the HoD after verification)												
16.	Any other details	:	-												

The above proposal may kindly be approved.

[Signature]
30/3/22
Course co-ordinator(s)

[Signature]
31/3/22
HOD

[Signature]
31/3/22
Chief Coordinator/Academic

Encl:

1. Copy of the syllabus of the course
2. Financial proposal from the external organization (if any)

Kongu Engineering College, Perundurai, Erode - 638060
Department of Computer Science and Engineering
Two Credit Course on
18VC002 - OpenCV
Day-wise Attendance

S.No.	Roll No.	Name	19.04.22 (2 hours)	20.04.22 (2 hours)	21.04.22 (1.5 hours)	22.04.22 (1.5 hours)	27.04.22 (2 hours)	28.04.22 (2 hours)	29.04.22 (2 hours)	04.05.22 (2 hours)	05.05.22 (2 hours)	09.05.22 (2 hours)	10.05.22 (2 hours)	11.05.22 (2 hours)	22.05.22 (6 hours)	23.05.22 (1.5 hours)	24.05.22 (1.5 hours)	25.05.22 (1.5 hours)	28.05.22 (6 hours)	01.06.22 (1.5 hours)	02.06.22 (1.5 hours)	04.06.22 (1.5 hours)	05.06.22 (6 hours)	Total Hours	No. of Hours Present	No. of Hours Absent	Attendance Percentage
1	19AUR029	K. Santhosh	AB	/	AB	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	/	50	45	5	90
2	19AUR031	M. Saran	AB	/	AB	/	/	/	/	/	/	/	/	/	/	AB	/	AB	/	/	/	/	/	50	43.5	6.5	87
3	19AUR038	S. Thianesh	AB	/	AB	AB	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	/	/	50	43.5	6.5	87
4	19CER105	M. Sowdharani	AB	AB	AB	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	AB	AB	/	/	50	41.5	8.5	83
5	19CSR005	K. Aishwarya	AB	AB	/	/	/	/	/	/	/	AB	/	/	/	/	AB	/	/	/	/	/	/	50	42.5	7.5	85
6	19CSR011	G. Arun	/	/	/	/	/	/	/	AB	/	/	AB	/	/	/	/	AB	/	/	/	/	/	50	46	4	92
7	19CSR014	Ashwath V Praveen	/	/	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	/	/	50	48.5	1.5	97
8	19CSR027	P. Deva	/	/	AB	/	/	/	/	/	/	/	/	/	/	/	AB	AB	/	/	/	/	/	50	44	6	88
9	19CSL244	M. Santhosh	/	AB	AB	/	/	/	AB	/	/	/	/	/	/	/	AB	AB	/	/	/	/	/	50	43	7	86
10	19CSL246	V. Sri kumar	/	AB	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	/	/	50	46.5	3.5	93
11	19CSR118	G.C. Nandhidha	/	/	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	/	/	50	44	6	88
12	19CSR119	S. Nandhinidevi	/	/	/	/	/	/	/	AB	/	/	AB	/	/	/	/	/	/	/	/	/	AB	50	46	4	92
13	19CSR120	P.L. Nandhini	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	50	46	4	92
14	19CSR129	A. Noor Arfin	/	/	/	/	/	/	/	AB	AB	/	/	/	/	/	AB	/	/	/	/	/	/	50	42.5	7.5	85
15	19CSR130	D. Oviya	AB	AB	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	/	/	50	44.5	5.5	89
16	19CSR132	M. Pavithran	/	/	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	/	/	50	50	0	100
17	19CSR134	V.S. Poorva Kowshik	/	/	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	/	/	50	48.5	1.5	97
18	19CSR144	S. Pravin Kumar	/	/	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	/	/	50	42.5	7.5	85
19	19CSR145	S. Preethi	AB	/	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	AB	AB	50	46.5	3.5	93
20	19CSR146	S. Preethika	AB	AB	/	/	/	/	/	/	/	/	/	/	/	AB	/	/	/	/	/	/	/	50	44.5	5.5	89
21	19CSR147	M. Prema	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	AB	/	AB	AB	50	42.5	7.5	85
22	19CSR152	C. Ranjith	/	/	/	/	/	/	/	/	/	/	/	/	/	/	AB	AB	/	/	/	/	/	50	47	3	94
23	19CSR155	B. Ravichandran	/	/	/	/	/	/	AB	/	/	/	/	/	/	/	/	/	/	/	/	/	/	50	48	2	96
24	19CSR160	M. Rishika	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	AB	AB	50	44	6	88
25	19CSR161	K.S. Rithane	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	50	50	0	100
26	19CSR162	A.M. Rithani	/	/	/	/	/	AB	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	50	48	2	96
27	19CSR170	K. Sandhya	AB	/	/	/	/	/	/	/	/	/	/	/	AB	AB	/	/	/	/	/	/	/	50	45	5	90
28	19CSR172	R. Sanjeev Kumar	/	/	/	/	/	/	/	AB	/	/	/	/	/	/	/	/	/	/	/	/	/	50	48	2	96

1. *[Signature]*
2. S.MoC
Course Coordinators
(S.Mohana Saranya)
(S.M.Mahana Priya)

[Signature]
26/06/2022
HOD/CSE

KONGU ENGINEERING COLLEGE PERUNDURAI ERODE -638060

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Two Credit Course on

18VC002 - OpenCV

Test Marks

S.No.	Roll No.	Name	Test I	Test II	Total
1	19AUR029	K.Santhosh	50	43	93
2	19AUR031	M.Saran	50	45	95
3	19AUR038	S.Thianesh	50	44	94
4	19CER105	M.Sowdharani	50	45	95
5	19CSR005	K.Aishwarya	50	39	89
6	19CSR011	G.Arun	50	46	96
7	19CSR014	Ashwanth V Praveen	50	43	93
8	19CSR027	P.Deva	50	47	97
9	19CSL244	M.Santhosh	50	38	88
10	19CSL246	V.Sri Kumaran	45	39	84
11	19CSR118	G.C.Nandhidha	50	46	96
12	19CSR119	S.Nandhinidevi	50	45	95
13	19CSR120	P.L.Nanthini	50	45	95
14	19CSR129	A.Noor Arfin	50	39	89
15	19CSR130	D.Oviya	50	47	97
16	19CSR132	M.Pavithran	50	44	94
17	19CSR134	V.S.Poorva Kowshik	50	44	94
18	19CSR144	S.Pravin Kumar	50	46	96
19	19CSR145	S.Preethi	50	45	95
20	19CSR146	S. Preethika	47	41	88
21	19CSR147	M.Prema	50	46	96
22	19CSR152	C.Ranjith	42	42	84
23	19CSR155	B.Ravichandran	50	47	97
24	19CSR160	M.Rishika	50	45	95
25	19CSR161	K.S.Rithane	45	47	92
26	19CSR162	A.M.Rithani	50	46	96
27	19CSR170	K.Sandhiya	50	42	92
28	19CSR172	R.Sanjeew Kumar	50	43	93

1. *[Signature]*
2. *[Signature]*

Course Coordinators
(S.Mohana Saranya)
(S.Mohanapriya)

[Signature]
HOD/CSE