

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

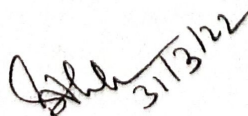
Date: 29.03.2022

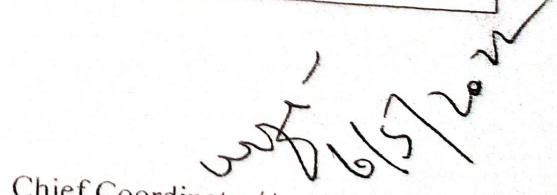
1.	Academic Year	:	2021-22	Semester : ODD / EVEN			
2.	Course Title	:	OPENCV	Credit(s): One / Two			
3.	Type of Course	:	Already Offered Course / Updated Course / New Course				
	• If “ Already offered course”	:	Course Code:	Version:			
4.	Course Coordinator(s)	:	1. K.Pugazharasi 2. P Kalaivani				
5.	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		Max. number of students/Batch		Course fee / student		
	NA		50		Nil		
9.	No. of days	Period		No. of hours		Venue/ Meet ID	
		From	To	Lecture	Practical		Total
	25	11.04.22	31.05.22	30	20		50
10.	Pre-requisites for offering the course	:	Python Programming				
11.	Course offered to	:	Programme	Branch	Year/Semester		
			B.E.	Mechatronics	III/VI		
			B.E.	Mechanical	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 border="1"> <thead> <tr> <th>S. No.</th><th>Type</th><th>Max. Marks</th></tr> </thead> <tbody> <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> </tbody> </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													
16.	Any other details	: -												

The above proposal may kindly be approved.


Course co-ordinator(s)


HOD


Chief Coordinator/Academic

Encl:

1. Copy of the syllabus of the course

KONGU ENGINEERING COLLEGE, PERUNDURAI – 638060
(Autonomous)

Department of Computer Science and Engineering
Two Credit Course on 18VC002-OpenCV

ATTENDANCE PERCENTAGE

S.No	Reg.No	Name	Dept	Year	Sec	Attendance Percentage
1	19MER023	Barathram R	MECH	III	A	100
2	19MER055	Gowtham. K	MECH	III	B	87
3	19MER061	T R.Haris Kumar	MECH	III	B	87
4	19MER063	Inbaraj P	MECH	III	B	87
5	19MER084	Karthikeyan A	MECH	III	B	100
6	19MER085	Karthikeyan B	MECH	III	B	93
7	19MER088	Kaushik M	MECH	III	B	93
8	19MER089	Kavinkumar S	MECH	III	B	93
9	19MER090	Kavin V R	MECH	III	B	93
10	19MER114	Mugilan K	MECH	III	C	93
11	19MER144	Rajbalan B	MECH	III	C	87
12	19MER175	Sivaprasath V	MECH	III	D	100
13	19MTL124	Shrihari N K	MTS	III	B	100
14	19MTR004	Akash G	MTS	III	A	93
15	19MTR009	Ashwin Guhan N	MTS	III	A	93
16	19MTR016	R. Gokul Raj	MTS	III	A	100
17	19MTR019	Gokulraaj P	MTS	III	A	100
18	19MTR038	Kishor Kumar B	MTS	III	A	100
19	19MTR043	Lalu Prasanna S B	MTS	III	A	87
20	19MTR049	Mohamedrafiudeen MM	MTS	III	A	100
21	19MTR052	Mohammed Jaheeruddin J	MTS	III	A	100
22	19MTR075	Saibala Ragavendra K	MTS	III	B	87

1. K. 

2. P. 

Course Coordinators

1. K. PUGAZHARASI

2. P. KALAIYANDI


29/12/19
HOD/CSE

Attendance List

Department on Computer Science and Engineering																													
Two credit Course on 18EC002 / OPEN CV																													
Attendance List						OFF LINE																ONLINE							
S.No	Reg.No	Name	Dept	Year	Sec	10-04-22	11-04-22	12-04-22	13-04-22	14-04-22	15-04-22	16-04-22	17-04-22	18-04-22	19-04-22	20-04-22	21-04-22	22-04-22	23-04-22	24-04-22	No of Days	Attendance Percentage							
1	19MER023	Bharatham R	MECH	III	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	100.0							
2	19MER055	Govtham K	MECH	III	B	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	13	86.7							
3	19MER061	Haris Kumar T R	MECH	III	B	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	13	86.7							
4	19MER063	Inbaraj P	MECH	III	B	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	13	86.7							
5	19MER084	Karthikeyan A	MECH	III	B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	100.0							
6	19MER085	Karthikeyan B	MECH	III	B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	14	93.3							
7	19MER088	Kaustik M	MECH	III	B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	14	93.3							
8	19MER089	Kavinkumar S	MECH	III	B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	14	93.3							
9	19MER090	Kavin V R	MECH	III	B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	14	93.3							
10	19MER114	Meghian K	MECH	III	C	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	14	93.3							
11	19MER144	Rajbalan B	MECH	III	C	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	13	86.7							
12	19MTL124	Shrithan N K	MTS	III	B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	100.0							
13	19MTR004	Akash G	MTS	III	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	14	93.3							
14	19MTR009	Ashwin Gulhan N	MTS	III	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	14	93.3							
15	19MTR016	Gokul Raj R	MTS	III	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	100.0							
16	19MTR019	Gokulraj P	MTS	III	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	100.0							
17	19MTR038	Kishor Kumar B	MTS	III	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	100.0							
18	19MTR043	Lalu Prasanna S B	MTS	III	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	13	86.7							
19	19MTR049	Mohamedrafaudeen M M	MTS	III	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	100.0							
20	19MTR052	Mohammed Jabbaruddin J	MTS	III	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	100.0							
21	19MTR075	Saibala Rajgavendra K	MTS	III	B	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	13	86.7							
22	19MER175	Sivaprasath V	MECH	III	D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	15	100.0							

Course Coordinators

HOD/CSE

1. K. PUGAZHAKASI
2. P. KALAIYANDI

[Signature]

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Department of Computer Science and Engineering
Two credit Course on 18VC002 / OPEN CV
Assesment Attendance

S.NO	Register No.	Name	Department	Year	Sec	Attendance
1	19MER023	Barathram R	Mechanical	III	A	Present
2	19MER055	Gowtham K	Mechanical	III	B	Present
3	19MER061	Haris Kumar T R	Mechanical	III	B	Present
4	19MER063	Inbaraj P	Mechanical	III	B	Present
5	19MER084	Karthikeyan A	Mechanical	III	B	Present
6	19MER085	Karthikeyan B	Mechanical	III	B	Present
7	19MER088	Kaushik M	Mechanical	III	B	Present
8	19MER089	Kavin Kumar S	Mechanical	III	B	Present
9	19MER090	Kavin V R	Mechanical	III	B	Present
10	19MER114	Mugilan K	Mechanical	III	C	Present
11	19MER144	Rajbalan B	Mechanical	III	C	Present
12	19MER175	Sivaprasath V	Mechanical	III	B	Present
13	19MTR004	Akash G	Mechatronics	III	A	Present
14	19MTR009	Ashwin Guhan N	Mechatronics	III	A	Present
15	19MTR016	Gokul Raj R	Mechatronics	III	A	Present
16	19MTR019	Gokulraaj P	Mechatronics	III	A	Present
17	19MTR052	Mohammed Jaheeruddin J	Mechatronics	III	A	Present
18	19MTR038	Kishor Kumar B	Mechatronics	III	A	Present
19	19MTR043	Lalu Prasanna S B	Mechatronics	III	A	Present
20	19MTR049	Mohamed Rafiudeen M M	Mechatronics	III	A	Present
21	19MTR075	Saibala Ragavendra K	Mechatronics	III	B	Present
22	19MTL124	Shrihari N.K	Mechatronics	III	B	Present

1. 

2. 

Course Coordinators

1. K. PUGAZ HARAS

2. P. KALAIVAN

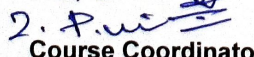

29/7/22
HOD/CSE

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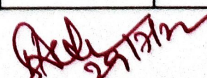
Department of Computer Science and Engineering
Two Credit Course on 18VC002 / OPEN CV

Assesment Marks

S.NO	Register No.	Name	Department	Year	Sec	Assesment 1 (50)	Assesment 2 (50)	Total (100)
1	19MER023	Barathram R	Mechanical	III	A	42	42	84
2	19MER055	Gowtham K	Mechanical	III	B	44	47	91
3	19MER061	Haris Kumar T R	Mechanical	III	B	44	46	90
4	19MER063	Inbaraj P	Mechanical	III	B	44	48	92
5	19MER084	Karthikeyan A	Mechanical	III	B	40	40	80
6	19MER085	Karthikeyan B	Mechanical	III	B	44	41	85
7	19MER088	Kaushik M	Mechanical	III	B	42	42	84
8	19MER089	Kavin Kumar S	Mechanical	III	B	40	46	86
9	19MER090	Kavin V R	Mechanical	III	B	44	25	69
10	19MER114	Mugilan K	Mechanical	III	C	42	40	82
11	19MER144	Rajbalan B	Mechanical	III	C	42	25	67
12	19MER175	Sivaprasath V	Mechanical	III	B	40	46	86
13	19MTR004	Akash G	Mechatronics	III	A	44	49	93
14	19MTR009	Ashwin Guhan N	Mechatronics	III	A	36	45	81
15	19MTR016	Gokul Raj R	Mechatronics	III	A	44	50	94
16	19MTR019	Gokulraaj P	Mechatronics	III	A	44	41	85
17	19MTR052	Mohammed Jaheeruddin J	Mechatronics	III	A	42	40	82
18	19MTR038	Kishor Kumar B	Mechatronics	III	A	44	46	90
19	19MTR043	Lalu Prasanna S B	Mechatronics	III	A	44	25	69
20	19MTR049	Mohamed Rafiudeen M M	Mechatronics	III	A	40	40	80
21	19MTR075	Saibala Ragavendra K	Mechatronics	III	B	40	41	81
22	19MTL124	Shrihari N.K	Mechatronics	III	B	44	45	89

1. 
2. 
Course Coordinators

1. K. PUGAZHARASI
2. P. KALANANI


HOD/CSE