#### KONGU ENGINEERING COLLEGE PERUNDURAI ERODE-638060 (AUTONOMOUS)

### DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 17.11.2020

## NOTE SUBMITTED TO PRINCIPAL FOR APPROVAL

Sub: Request for permission to conduct one/two credit course - reg.

1.	Acade	mic Year	;	2020-21		1:160	Semester: OI	DD
2.	Course	e Title	:	Image and Vic	leo processing	Credit(s): On	e/Two	
3.	Туре	of Course	:	Already Offer	red Course / L	Jpdated Co	urse / New Co	urse
		Already dourse",		Course Code:		Versi	on:	
4.	Coord	inator(s)	:	1. Dr.R.Devi I 2. N. Anitha	Priya	\$4.		
5.	Course	e offered by		Internal facul	ty .			
6.		ation of al resource		Mr. Háriharan	M, Software I	Developer.		
7.	Details	Manager Co.						
	organiz	ztaion		JCluster Sof	tware Solution	s, Salem.		
3.	361	rse fee for ex	der				ents/Batch	Course fee / student (Rs.)
3.	361		000	mal experts	Max. num		0 .	Carried Control of the Control of th
	Cou No.	rse fee for ex Rs. 10 (5000 * 2.1	000	mal experts	Max. num	ber of stud	0	(Rs.)
	Cou	rse fee for ex Rs. 10 (5000 * 2.1	000	rnal experts 0 ches)	Max. num	ber of stud Batch I - 5 Batch II - 5	0 0	(Rs.)
	Cou No.	Rs. 10 (5000 * 2 l	000 bate	nnal experts 0 ches)	Max. num	Batch I - 5 Batch II - 5 No. of hou	0 0	(Rs.)
9.	No. of days	Rs. 10 (5000 * 2 t)  From  21.11.2020  quisites for g the	000 bate	onal experts  ches)  iod  To	Max. num	Batch II - 5 Batch III - 5 No. of hou	0 0 ors Total 20	(Rs.) 100 Venue
9.	No. of days  10  Pre-rec offering course	Rs. 10 (5000 * 2 t)  From  21.11.2020  quisites for g the	000 bate Per	rnal experts  0 ches) riod  To  05.12.2020	Max. num	Batch II - 5 Batch III - 5 No. of hou	0 0 ors Total 20	(Rs.) 100 Venue

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Sub: Request for permission to conduct one/two credit course - reg.

1.	Acade	emic Year	:	2020-21			Semester: OI	DD	
2.	Cours	e Title	:	Image and Vie Python	A STATE OF THE PARTY OF THE PAR				
3.	Туре	of Course	:	Already Offe	red Course / 1	Updated Co	urse / New Co	urse	
	• If" offere	Already d course",	:	Course Code:		Versi	on:		
1.	Coord	e linator(s)	:	1. Dr.R.Devi I 2. N. Anitha	Priya	(a)			
5.	Course	e offered by	:	Internal facul	ty .	jour de			
6.	100000000000000000000000000000000000000	ation of al resource	Sec. 100	Mr. Háriharan	M, Software	Developer.			
7.	Detail:	Manager Control							
A STATE OF STATE OF	organi	ztaion		JCluster Sof	ftware Solution	ns, Salem.			
		ztaion	cles				ents/Batch	Course fee / student (Rs.)	
The second secon			000	mal experts	Max. nun		0		
Secretary Services	Cou No. •	Rs. 10 (5000 * 2	000	mal experts	Max. nun	nber of stud	0	(Rs.)	
Secretary Services	Cou	Rs. 10 (5000 * 2	000	mal experts  Oches)	Max. nun	nber of stud Batch I - 5 Batch II - 5	0 0	(Rs.)	
Secretary Street	Cou No. • of	Rs. 10 (5000 * 2 l	000 bati	rnal experts  ) ches)	Max. nun	Batch I - 5 Batch II - 5 No. of hou	0 0	(Rs.)	
	No. · of days	Rs. 10 (5000 * 2 )  From  21.11.2020  quisites for g the	000 bati	rnal experts ) ches) iod To	Max. nun	Batch I - 5 Batch II - 5 No. of hou Practical	Total 20	(Rs.) 100 Venue	
0.	No. of days 10 Pre-recoffering course	Rs. 10 (5000 * 2 )  From  21.11.2020  quisites for g the	000 bate Per	rnal experts  ) ches) iod  To  05.12.2020	Max. nun Lecture 10 gramming (C/	Batch I - 5 Batch II - 5 No. of hou Practical	Total 20	(Rs.) 100 Venue	

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P								1			
					-						
	12.	Course Main		-	_						
		Contents			y I	Introduction to Image processing	Image Ac	quicition			
			1		у2	Image Enhancement, Image Rest	, mage Ac	quisition			
			1	Da	_	Color Image Processing, Multi-R	oration	to a section			
			+	Day	14	gmentation					
			-	Day	gmentation						
-1			-		Day 5 Representation and Description, Feature Matching, Reco						
		-	Day	7	Edge and Motion Detection	old, Video	Smoothing				
			1	Day	8	Edge and Motion Detection, Bitw Super Impose, Contour	ise Operation	ons			
	- 1			Day	9	Face Detection					
11			Day	10		The state of the					
				Assign	nmen	Background Subtraction, Extraction / Project /	on of image	s from video			
1				Case	Stud	y/Others: Development of a comput					
1	3. C	ourse Outcom	-			project for real time appli	ter vision				
1		- weom	es :	Aftero	omp	be will be	ablass				
					- Hui	istally pasic properties of in-		The state of the s			
1	-										
14	10				· mpn	ement python libraries for video ana	lysis				
1.4	-	ourse sessment	1:1	S. No.	T						
		fin. 2)	1	1	Oh	Type		Max. Marks			
			11		100	jective Type Questions		50			
				2	Des	scriptive Questions/ Programs					
			1+			- Tograms		50			
	1						T				
15.	Ver	ified that the	conte	nt of th	is co	ourse is not offered to students	Total	100 Marks			
	part	namy/fully in	regular	· curricu	lum	of respective programme of the					
	Cert	ify that the				programme of the					
	BOS	meeting or	ourse c	ontent, o	redi	s and grade are approved in the	-RQ_	7 2 1			
	ratifi	ed in the next	BOS	neeting	interi	is and grade are approved in the nal BOS members and will be	(Signat	J 8			
16.	Any	other details	1.1	neeting		00	after	ure of the HoD verification)			
	1 1 1 1		100				artel	verification)			

The above proposal may kindly be approved.

HOD 8-11-2020 Chief Coordinator/Academic

Principal

I. Copy of the syllabus of the course

# 18VAC10 - IMAGE AND VIDEO PROCESSING USING PYTHON

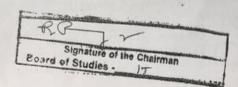
				- source L I	1110014			
					L	T	P	Credi
Preamble Fr					2	0	2	1
Additional II	o provide basic insights	of processing imag	e and video usin	a Python Open	CV		-	_
Unit I	nage Analysis:			a - Julou Openi	ov.	-		
Introduction i	in In-				2000	-		5
Control of the Contro	to Image processing. Multi-Resolution Proces on, Feature Matching, R Ideo Analysis:	sing, Compression ecognition.	, Morphological	Processing, Se	gmentat	ion, R	eprese	entation
Adaptive Thr	ashold Video S							5
Face Detection	eshold, Video Smoothi on, Background Subtrac	ng, Edge and Mot tion, Extraction of in	ion Detection, Bi mages from video	itwise Operation	ns, Supe	r Impo	se, C	ontour,
				Lecture:	10, Pra	ctical:	10, To	tal: 20
the delign on the same of the same								

- 1. Sandipan Day, "Hands-On Image Processing with Python", 1st Edition, Packt Publishing, 2018. 2. Jan Erik Solem, "Programming Computer Vision with Python", 2nd Edition, O'Reilly Publishers, 2012.

COURSE OUTCOMES: On completion of the course, the students will be able to	BT Mapped
CO1 understand basic properties of image and video	(Highest Level)
CO2 demonstrate image analysis using Python	Understanding(K2), Precision (S3)
	Applying (K3), Precision (S3)
CO3 Implement python libraries for video analysis	Applying (K3), Precision (S3)

COs/POs	PO1	PO2	POS	POA	DOF	DO0	-	-	and PS	03			*	
	-	. 02	1.00	1104	105	P06	P07	PO8	PO9	PO10	PO11	PO12	Dena	Door
CO1	3	2	1	1	1							1.012	17301	PS02
CO2	3	2	1	1	1	-		_						
CO3	3	2	1	1	1	-	-							

		ASSESSME	NT PATTER	N.	-		
Test / Bloom's Category*	Remembering (K1) %	Understanding (K2) %		Analyzing (K4) %	Evaluating	Creating	Total
Assessment Test 1-				(104) 70	(K5) %	(K6) %.	1 %
MCQ <sup>-</sup> (50 marks)	20	30	50	A CONTRACTOR			100
Assessment Test 2-							100
Descriptive Questions/Programs (50 marks)	20	30	50		4		100





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KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE - 638060 DEPARTMENT OF INFORMATION TECHNOLOGY ONE Credit Course - Mark Statement
Course Code and Name: 18VAC10 & Image and Video Processing using Python
Branch & Semester : III IT & V Semester
Faculty Incharges: Dr.R.Devi Priya & Ms.N.Anitha

S.No	Roll Number	Name of the Student	Test 1 (50)	Test 2 (50)	Total (100)
1	18ITR062	Niranjan R	40	38	78
2	18ITR072	Poongothal M	41	40	81
3	18ITR074	Praveen.E	40	40	80
4	18/TR078	Pushpalatha M	38	38	76
5	18ITR083	Rokith Dhayal. N	38	34 ·	72
6	18ITR084	Saireventh T	40	36	76
7	18ITR086	Saranraj V	38	36	74
8	18ITR093	Sidderth M	38	38	76
9	18ITR097	Soundarajan.C	40	38	78
10	18ITR102	Supreetha S M	38	36	74
11	18ITR103	Swathi V	40	38	78
12	18ITR111	Vigasini R	40	40	80
13	18ITR112	Vinothini,D	40	38	78
14	18ITR109	Vaishnavi N	42	34	76
15	18/TR110	Venkataprasanna R	34	26	60
16	18ITR113	Vishva Bharathi C	42	38	80
17	18ITR114	Yamuna.S	40	36	76
18	VEIL098	Gowtham, K	26	25	51
19	18EIR003	Arthi.G.S	40	40	80
20	18EIR014	Dhivakar T V	35	26	61
21	18EIR016	Dhivyadharshini K	38	30	68
22	18EIR017	Divyadharshini E	40	36	76
23	18EIR018	Ganesh K	42	44	- 86
24	18EIR020	Gokula Priya K	40	38	78
25	18EIR025	Harini K K	38	42	80
26	18EIR026	Harini R	40	38	78
27	18EIR033	Jasodhasree C	38	40	78
28	18EIR035	Kaaveeyaa S K	38	36	74
29	18EIR038	Kodimalar T	37	36	73
30	18EIR041	Manikandan.K	30	28	58
31	18EIR043	Monika S	41	36	77
32	18EIR044	Mounesa P	35	38	73
33	18EIR047	Narmatha T	40	38	78
34	18EIR050	Nithyashri.S	37	34	71
35	18EIR051	Padma Priya K	31	32	63
36	18EIR052	Poojashri V	40	38	78
37	18EIR054	Pradeep.C	43	42	85
38	18EIR058	Prithivaka P	40	30	70
39	18EIR063	Ramya P	39	*34	73
40	18EIR064	Ranjani.M	37	26	63
41	18EIR066	Rathish P	38	36	74
42	18EIR067	Renugadevi M	37	36	
43	18EIR068	Reshnuvi R V	38	36	73
44					74
45	18EIR071	Sanjay Kumar S	38	38	76
	18EIR072	Santhosh.R	40	38	78
45	18EIR079	Snega R	40	38	78
47	18EIR084	Suhitha	39	40	79
48	18EIR087	Swetha.V.S	40	36	76
49	18EIR091	Vasuki.P	43	40	83
50	18EIR095	Vishali.R	39	38 -	77

Faculty Incharge (s)
Dr.R.Devi Priya
Ms.N.Anitha

727/1/21 ( HOD/IT

1.0 NGU ENGINEERING COLLEGE, PERINDURAL
DEPARTMENT OF INFORMATION TECHNOLOGY
Consolidated Attendance Report
1 CREDIT COURSE 2020-21(Odd Sem)
18VAC10-IMAGE AND VIDEO PROCESSING USING PYTHO
Sem) and III yr E&I Faculty Incharge: 1

-No	Roll No	Student Name	Total no of	March		L.Anitha
1	18/TR062	The second secon	Hrs.	No of hrs Absent	No of hrs Present	% of
2	_	The state of the s	20	3	17	Attenda 85.00
3	18/TR072	The state of the s	20	3	17	85.00
4	18ITR074	- Control of the Cont	20	1	19	95.00
5	18/TR083	Annual Property and Park	20	1	19	95,00
6	18/TR084	The same of the sa	20	3	17	85.0
7	18/TR086	The second secon	20	3	17	85.00
8	18/TR093		20	3	17	85.00
9	18/TR097		20	0	20	100.0
10	18/TR102		20	2	18	90.0
11	18/TR103	Supreetha S M	20	2	18	90.0
12	18/TR111	Swathi V	20	2	18	90.0
13	18/TR112	Vigasini R	20	1	19	95.0
14		Vinothini,D	20	3	17	85.0
15	18/TR109	Valshnavi N	20	3	17	85.0
16	18/TR110		20	0	20	100.0
17	18/TR113	Vishva Bharathi C	20	3	17	85.0
18	18/TR114	Yamuna.S	20	3	17	85.00
19	18EIL098	Gowtham, K	20	6	14	70.0
20	18EIR003	Arthi.G.S	20	1	19	95.00
20	18EIRD14	Dhivakar T V	20	4	16	80.00
-	18EIR016	Dhivyadharshini K	20	4	16	80.00
22	18EIR017	Divyadharshini E	20	4	16	80.00
23	18EIR018	Ganesh K	20	4	16	80.00
24	18EIR020	Gokula Priya K	20	1	. 19	- 95.00
25	18EIR025	Harini K K	20	0	20	100.0
25	18EIR026	Harini R	20	2	18	90.00
27	18EIR033	Jasodhasree C	20	0	20	100.0
28	18EIR035	Kaaveeyaa S K	20	1	19	95.00
29	18EIR038	Kodimalar T	20	3	17	85.00
30	18E/R041	Manikandan.K	20	3	17	85.00
31	18EIR043	Monika S	20	0	20	100.0
32	18EIRO44	Mounesa P	20	0	20	100.0
33	18EIRO47	Narmatha T	20	0 -	20	100.0
34	18EIR050	Nithyashri.S	20	0	20	100.0
35	18EIR051	Padma Priya K	20	0	20	100.0
36	18EIR052	Poojashri V	20	2	18	90.0
37	18EIR054	Pradeep.C	20	4	16	80.08
38	18EIR058	Prithivaka P	20	0	20	100.0
39	18EIRO63	Ramya P	20	0	20	100.0
40	18EIR064	Ranjani.M	20	2	18	90.00
		Rathish P	20	0	20	100.0
	100 mm	Renugadevi M	20	4	16	80.00
43	18EIR068	Reshnuvi R V	20	0	20	100.0
		Sanjay Kumar S	20	0	20	100.0
		Santhosh.R	20	2	18	90.00
-		Snega R	20	0	20	100.0
	The second secon	Suhitha	20	0	20 *	100.0
_		Swetha.V.S	20	0	20	100.0
_		/asuki.P	20	2	18	90.00
	DEINO33	A.Hariett.R	20	0	20	100.0

20 100.00 18 90.00 20 100.00