

UP TO
₹. 20,000/-

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE-638 060

PROGRAMME APPROVAL FORM

AD-12-PP
REV.1
01.01.2021

Proposal Tracking No. KEC / MTB / 2020-21 / 02 / 0159

Dept Ref No: MT / 2020-2021 / 012 Date: 18/02/2021

1.	Department:	Mechatronics Engineering			
2.	a) Name of the Programme	One credit course on "Object Oriented Python Programming"			
	b) Norms under which it is proposed	One credit Course Norms			
3.	Dates:	From	21/02/2021	TO	14/03/2021
		No. of Days	6 days		
4.	Programme for:	Faculty	Students	Others (Specify)	
		-	✓	-	
5.	Level:	State / National / International	Association	Institution / Dept. / Coll. / General	
		-	-	-	
6.	Highlights of the Programme	To provide hands on Training on "Object Oriented Python Programming" & Excel on the same platform			

1. Proposed Invitees

S No.	Purpose	Chief Guest	Speakers / Jury	Trust Member Invitees
1	-	-	-	-
2				

2. Agenda: ~~Programme Agenda~~ / Schedule Enclosed: Yes / No

3. Expenditure:

S.No	Purpose	Proposed	Revised	Actual	Remarks
1	Nil Expenses	-			(39 students have registered for the course. Course will be conducted at Free of Cost)
2					
3					
4					
5					
6					
Total		Nil / ✓			

4. Source

	Proposed	Actual
Budget Allotment	Spansors -	
Balance Amt. Available	KEC -	
Expenses Proposed	Registration -	
Balance		

Faculty / (c) (with Name)

H.O.D. (21/02/2021)

CCO (21/02/2021)

PRINCIPAL (21/02/2021)



KONGU ENGINEERING COLLEGE
(Autonomous)
PERUNDURAI, ERODE - 638 060

DEPARTMENT OF MECHATRONICS ENGINEERING



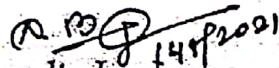
Ref:-KEC/MTR/2021-2022/R&C-Lab/01

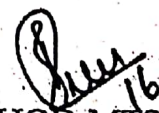
Date: 16.08.2021

NOTE

Sub: Nil Expenses Approval - Settlement - reg.

We have been conducted a one-credit course on the title "18VAC25 Object Oriented Python Programming" at the weekends from 21.02.2021 to 14.06.2021 (in physical mode as well as online mode) for the benefits of II-year mechatronics students. Since the course was conducted at free of cost, no expenses have arrived for the completion of the course. Hence it is kindly requested to accord the permission to settle the approval with no expenses.


Faculty In-charge
(A. BALAJI)


HOD-MTS
16/8/2021

KONGU ENGINEERING COLLEGE
PERUNDURAI ERODE-638060
(AUTONOMOUS)

DEPARTMENT OF MECHATRONICS ENGINEERING

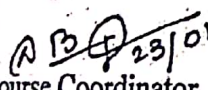
Date: 23.01.2021

DETAILS OF ONE / TWO CREDIT COURSE

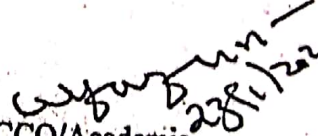
1.	Academic Year	:	2020 - 2021	Semester :	ODD / EVEN		
2.	Course Title	:	Object Oriented Python Programming				
3.	Type of Course	:	Already Offered Course / Updated Course / New Course				
	• If "Already offered course",	:	Course Code:		Version: R2018		
4.	Course Coordinator(s)	:	1. Dr.P. Priakanth, Professor / CSE 2. Mr.A. Balaji, Assistant Professor (SRG)/MTS				
5.	Course offered by	:	Internal faculty / External expert				
6.	Name and designation of external resource persons	:	—				
7.	Details about external organization	:	—				
8.	Course fee for external experts		Max. number of students/Batch		Course fee / student		
	Batch -I:	Nil	50		Nil		
9.	No. of days	Period		No. of hours			Venue
		From	To	Lecture	Practical	Total	
	9	14.02.2021	28.03.2021	15	15	30	
10.	Pre-requisites for offering the course	:	Basic Knowledge on Problem Solving and Programming Skill				
11.	Course offered to	:	Programme	Branch	Year/Semester	Regulations	
			B.E.	Mechatronics	II / IV	R2018	
12.	Course Main Contents	:	Day 1	Simple programs using number, string, list tuple, dictionary and set data types.			
			Day 2	Programs on iterative and decision making statements, functions and recursion			
			Day 3	File creation and operations on files, Classes and objects			
			Day 4	Inheritance, Method and operator overloading,			
			Day 5	Method Overriding and super () method			
			Day 6	Exceptions, built in and user defined exceptions			

			Day 7	Exception handling mechanism, Regular Expressions	
			Day 8	Concurrent programming using threads,	
			Day 9	Developing application (gaming) using python	
			Day 10	Python's database connectivity	
13.	Course Outcomes	:	After completing the course the student will be able to: • setup working environment for executing python program • design simple application using functions and classes • connecting to database using python program		
14.	Course Assessment (Min. 2)	:	S. No.	Type	Max. Marks
			Theory		
			1.	Assignment	15
			2.	End Theory Examination	25
			Practical		
			3.	Laboratory Experiments	40
			4.	Model Practical Examination	20
				Total	100 Marks
15.	Any other details	:	Nil		

The above proposal may kindly be approved.


 Course Coordinator
 (A. Balaji)


 HOD/MTS


 CCO/Academic

18VAC25 - OBJECT ORIENTED PYTHON PROGRAMMING

L	T	P	Credit
0	0	2	1

Preamble This course provides an intuitive understanding on object-oriented python programming which will help the learners to leverage their knowledge in programming applications.

List of Exercises / Experiments:

1.	Sample program using Number and String data type
2.	Sample program using List and Tuple data type.
3.	Sample program using Dictionary and Set data type.
4.	Programs on iterative and decision-making statements
5.	Programs using functions and recursion.
6.	File Creation and operations on files
7.	Classes and objects.
8.	Inheritance and its types.
9.	Method overloading and Operator overloading.
10.	Method Overriding and super () method.
11.	Exception handling mechanism and user defined exception.
12.	Regular expression.
13.	Concurrent programming using threads.
14.	Developing application (gaming) using python.
15.	Python's database connectivity.

Total:30

REFERENCES:

1.	Mark Lutz, "Learning Python", 5th Edition, O'Reilly Media, 2013.
2.	Wesley J Chun, "Core Python Programming", 2nd Edition, Prentice Hall, New York, 2009.
3.	http://pythonprogramminglanguage.com/
4.	http://www.programiz.com/python-programming/
5.	http://python.swaroopch.com/

COURSE OUTCOMES:

On completion of the course, the students will be able to

		BT Mapped (Highest Level)
CO1-	setup working environment for executing python program	Understanding (K2), Manipulation (S2)
CO2	design simple application using functions and classes	Applying (K3), Manipulation (S2)
CO3	connecting to database using python program	Analyzing (K4), Manipulation (S2)

Mapping of COs with POs and PSOs

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	3				3	2		2	3	3
CO2	3	3	3	2	3				3	2		2	3	3
CO3	3	3	3	2	3				3	2		2	3	3

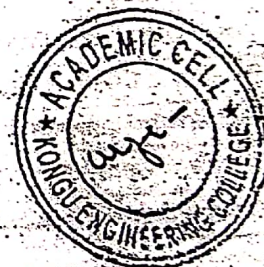
1 - Slight, 2 - Moderate, 3 - Substantial, BT- Bloom's Taxonomy

ASSESSMENT PATTERN

Test / Bloom's Category*	Remembering (K1) %	Understanding (K2) %	Applying (K3) %	Analyzing (K4) %	Evaluating (K5) %	Creating (K6) %	Total %
Assignment - 15 Marks			100				100
Assessment Test - 25 Marks		25	75				100
Laboratory Experiments - 40 Marks		30	60	10			100
Practical Assessment - 20 Marks		30	60	10			100

Signature of the Chairman

Board of Studies - Mechanics



KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE – 638 060
DEPARTMENT OF MECHATRONICS ENGINEERING
ONE CREDIT COURSE ON 18VAC25 OBJECT ORIENTED PYTHON PROGRAMMING
MARK SHEET

S.No	Roll No.	Name of the Student	Laboratory Experiments (40)	Assignment (15)	Model Practical Examination / Assessment (20)	End Theory Examination / Assessment (25)	Total Marks (100)
1	19MTL106	ASHOK R	40	10	0	21	71
2	19MTR002	ABISHEK C	40	15	20	23	98
3	19MTR003	AKASH S	40	15	0	25	80
4	19MTR004	AKASH G	40	12	15	24	91
5	19MTR005	AKSHAY KANNAN R	40	15	20	24	99
6	19MTR006	ARAVINDHAN D	40	14	20	25	99
7	19MTR009	ASHWIN GUHAN N	40	14	20	25	99
8	19MTR010	BALA GURU C	40	10	0	25	75
9	19MTR011	DANY ROHINTH R S	40	15	20	23	98
10	19MTR012	DEVA DHARSINI G	40	15	20	24	99
11	19MTR013	DHANUSH CHAKKARAVARTHY M	40	14	20	25	99
12	19MTR016	GOKUL RAJ R	40	15	20	24	99
13	19MTR017	GOKUL S	40	12	17	21	90
14	19MTR018	GOKULAMADHAVAN D	40	15	20	24	99
15	19MTR020	GUNALAN P	40	14	20	25	99
16	19MTR021	GURU MOORTHY P	40	14	20	25	99
17	19MTR022	GURU PRASANTH M	40	10	0	25	75
18	19MTR024	HARISH M	40	12	10	23	85
19	19MTR025	JAGADEESH R	40	15	20	24	99
20	19MTR027	JAYA PRAKASH G	40	15	20	20	95
21	19MTR032	KARNUYA BS	40	12	10	24	86
22	19MTR034	KEERTHIWASAN S	40	10	5	25	80
23	19MTR035	KEVIN K V	40	14	20	25	99
24	19MTR039	KISHORE M	20	15	20	23	78
25	19MTR042	KUMARAN N	40	12	15	23	90
26	19MTR044	MAGESH R	40	15	20	23	98
27	19MTR045	MANIKANDAN G	40	14	20	25	99
28	19MTR046	MANOJ J	40	14	20	25	99
29	19MTR047	MEGAVARTHINI M	40	15	20	20	95
30	19MTR049	MOHAMMED RAFIUDEEN M	40	14	20	25	99
31	19MTR051	MOHAMMED ADHIL H	40	14	20	25	99
32	19MTR052	MOHAMMED JAHEERUDDIN J	40	14	20	25	99
33	19MTR053	MOHAN RAJ G	40	15	20	23	98
34	19MTR055	MOULI CHAANDAR R J	40	12	10	21	83
35	19MTR056	MURALIDHARAN A	40	15	17	25	97
36	19MTR070	RAVIVARMA M	40	14	20	25	99
37	19MTR083	SNEHA A	40	15	20	24	99
38	19MTR092	SUDAHAR P S	40	15	20	24	99

(Signature)
 Course Coordinator
 (A. BALAJI)

(Signature)
 08/07/2021
 HOD-MTS

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE – 638 060
DEPARTMENT OF MECHATRONICS ENGINEERING
ONE CRDEIT COURSE ON 18VAC25 OBJECT ORIENTED PYTHON PROGRAMMING
ATTENDANCE PERCENTAGE from 21.02.2021 to 13.06.2021

S.No.	Roll No.	Name of the Student	No. of Hours Conducted	No. of Hours Attended	Attendance Percentage
1	19MTL106	ASHOK R	30	30	100
2	19MTR002	ABISHEK C	30	30	100
3	19MTR003	AKASH S	30	30	100
4	19MTR004	AKASH G	30	30	100
5	19MTR005	AKSHAY KANNAN R	30	30	100
6	19MTR006	ARAVINDHAN D	30	30	100
7	19MTR009	ASHWIN GUHAN N	30	30	100
8	19MTR010	BALA GURU C	30	30	100
9	19MTR011	DANY ROHINTH R S	30	30	100
10	19MTR012	DEVA DHARSINI G	30	30	100
11	19MTR013	DHANUSH CHAKKARAVARTHY M	30	30	100
12	19MTR016	GOKUL RAJ R	30	30	100
13	19MTR017	GOKUL S	30	30	100
14	19MTR018	GOKULAMADHAVAN D	30	30	100
15	19MTR020	GUNALAN P	30	30	100
16	19MTR021	GURU MOORTHY P	30	30	100
17	19MTR022	GURU PRASANTH M	30	30	100
18	19MTR024	HARISH M	30	30	100
19	19MTR025	JAGADEESH R	30	30	100
20	19MTR027	JAYA PRAKASH G	30	30	100
21	19MTR032	KARNUYA BS	30	30	100
22	19MTR034	KEERITHIWASAN S	30	30	100
23	19MTR035	KEVIN K V	30	30	100
24	19MTR039	KISHORE M	30	30	100
25	19MTR042	KUMARAN N	30	30	100
26	19MTR044	MAGESH R	30	30	100
27	19MTR045	MANIKANDAN G	30	30	100
28	19MTR046	MANOJ J	30	30	100
29	19MTR047	MEGAVARTHINI M	30	30	100
30	19MTR049	MOHAMMED RAFI UDEEN M	30	30	100
31	19MTR051	MOHAMMED ADHIL H	30	30	100
32	19MTR052	MOHAMMED JAHEERUDDIN J	30	30	100
33	19MTR053	MOHAN RAJ G	30	30	100
34	19MTR055	MOULI CHAANDAR R J	30	24	80
35	19MTR056	MURALIDHARAN A	30	30	100
36	19MTR070	RAVIVARMA M	30	30	100
37	19MTR083	SNEHA A	30	30	100
38	19MTR092	SUDAHAR P S	30	30	100

(Signature) 08/07/2021
Course Coordinator

(A. BALAJI)

(Signature) 08/07/2021
HOD-MTS