

1C341/2

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/MTR/2020-2021/02/0157

Dept Ref.No.: MT/2020-2021/013

Date: 18/02/2021

1.	Department:	Mechatronics Engineering			
2.	a). Name of the Programme	One Credit Course on "Robot Operating System"			
	b). Norms under which it is proposed	One credit Norms			
3.	Dates:	From : 20.02.2021	TO: 28.02.2021	No. of Days	12
4.	Programme for:	Faculty	Students ✓	Others (Specify)	
5.	Level:	State / National / International	Association	Institution / Dept. / Cell / General	
6.	Highlights of the Programme:	To promote knowledge on ROS Platform for 111 Year Mechatronics students & to understand autonomous mobile navigation system.			

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	External Expert remunerations	Rs. 19,000/-			(Course fee of amount Rs. 500/- per student X 38 students = Rs. 19,000/- will be collected from the students)
2					
3					
4					
5					
6					
Total		Rs. 19,000/-			

4. Source Students Course Fee Amount

	Proposed	Actual
Budget Allotment		
Balance Amt. Available		
Expenses Proposed		
Balance		

(A. BALAJI)
Faculty i/c (with Name)
(18/02/2021)

H.O.D (18/2/2021)

CCB (18/2/2021)
CD

PRINCIPAL
23.2

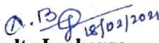
KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE – 638 060
DEPARTMENT OF MECHATRONICS ENGINEERING

Ref:-KEC/MTR/R&MV Laboratory/2020-21/08

Date: 18.02.2021

One credit course on Robot Operating System schedule

S.No.	Date	Time	Content
1.	20.02.2021	04.00 pm to 06.00 pm	Introduction to ROS Framework and Prerequisites
2.	21.02.2021	04.00 pm to 06.00 pm	Understanding Communication in ROS • File system level • Graph level
3.	27.02.2021	04.00 pm to 06.00 pm	Transformations
4.	28.02.2021	04.00 pm to 06.00 pm	ROS motions and controls
5.	06.03.2021	04.00 pm to 06.00 pm	ROS (Embedded and Real Time Systems)
6.	07.03.2021	04.00 pm to 06.00 pm	Practical 1 & 2: ROS Ecosystem: Programming nodes, Understanding Topics, Services
7.	13.03.2021	04.00 pm to 06.00 pm	Practical 3: ROS tf
8.	14.03.2021	04.00 pm to 06.00 pm	Practical 4: Introduction to Simulation Gazebo and Rviz
9.	20.03.2021	04.00 pm to 06.00 pm	Practical 5: ROS Motion (Intermediate Level)
10.	21.03.2021	04.00 pm to 06.00 pm	Review of Course
11.	27.03.2021	04.00 pm to 06.00 pm	Practical Assessment Examinations
12.	28.03.2021	04.00 pm to 06.00 pm	Theory Assessment Examinations


Faculty In charge
(A. B. A. J. J.)


HOD-MTS

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE - 638 060
(AUTONOMOUS)
BOARD OF MECHATRONICS ENGINEERING

Date: 08.02.21

Note: Submitted to Principal for Approval for One / Two credit Courses Offered in the academic Year 2020-2021 Even Semester

Sl. No	Regulations	Course Name	Course code (for Repeated Course) / New	Name of the Co-ordinators (Max:2)	Experts details from Industry (if any)	Whether Experts (Isare Alumni) (yes/no)	Lecture Hours	Practical Hours	Total Hours	Specify Fee Per Batch or Fee Per Student	Fee Amount (Fee/Batch or Fee/Student)	Course Duration		Offered to (YearSem/ Branch of the student)
												From	To	
1	2018	Design of printed circuit board	New Course	Dr. K. Gnanathi, Dr. S. Sathiyavathi	Mr. Balajee Mohan Sr. Technical Manager, Mr. Praveen Kumar, Sr. Technical Manager, Mr. Tamil Mukilan Sr. Technical Manager M/s. Enthu Technology Solutions India Pvt. Ltd # 88 & 89, SSN Square Puduchur. Near RTO Office South. Peelamedu Pudur.	No	10	10	20	500/Student	500/Student	8.02.21 15.03.21	19.02.21 26.03.21	IIIV/MNTS
2	2018	Robot Operating System	New Course	Dr. B. Meenakshispyra Mr. A. Balaji	Mr. R. Sathin Vignesh, System Engineer (Machine Automation), Caterpillar Inc. 4th Floor, 3B, RMZ Millennia Business Park, Phase 2, 143 Dr. MGR Road, Kandanchavady, North Veeranam Sali, Chennai, Tamilnadu-600096	No	10	10	20	500/Student	500/Student	14.02.21	28.03.21	IIIV/MNTS
3	2018/2020	Programming using SIEMENS PLCs	New Course	Dr. C. Maheswari, Mr. C. Naveen	Mr. Sathikumar, Managing Director, Mr. Jagadesh, Technical Engineer M/s Gann Automation Pvt Ltd, 1-A R K Nagar Behind Jashanthi Theatre, Singanailur, Tamilnadu 640005.	No	10	10	20	500/Student	500/Student	14.02.21	28.03.21	IIIV/I.U.I. MTS/IE
4	2018	LabVIEW core 1 and core 2 Programming	New Course	Dr. N. Nithyaanthy, Mr. S. Anandkumar	Mr. Balaji T. R., Certified LabVIEW Trainer, Technical consultant, 32/78 Eastwardoss street, Tropicana, Chennai, Tamilnadu-600005, E. Muralikrishnan, opthrought Solutions, Chennai(Sister concern of NI systems, Bangalore)	No	20	20	40	1500/Student	1500/Student	14.02.21	30.03.21	IIIV/MNTS
5	2018	IoT Programming using MCU – ESP8266	New Course	Dr. V. G. Prathap, Dr. S. K. Thangarasu	Aarunathan, Aarunathan, Solution Architect-Cat Digital, Caterpillar India Pvt Limited Chennai- 603103	No	10	10	20	600/Student	600/Student	15.03.21	28.03.21	IIIV/MNTS
6	2018	Object oriented python programming	New Course	Dr. P. Priyakanth, Mr. A. Balaji	Nil	No	10	10	20	Nil	Nil	14.02.21	28.03.21	IIIV/MNTS

The above proposal may kindly be approved. These courses shall be approved/drafted in the BOS meeting.

Faculty Incharge

HOD

CCO/Academic

Principal



KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI, ERODE - 638 060

SCHOOL OF BUILDING AND MECHANICAL SCIENCES
DEPARTMENT OF MECHATRONICS ENGINEERING



CERT No. 99-105-20786
ISO 9001: 2015

18.01.2021

CIRCULAR

One Credit Course on

“Robot Operating System”

Course Objective: To enhance and uplift the skills in Robot Software Development

It is planned to conduct a one credit course on “Robot Operating System” through virtual platform. The course details are given below.

Course details:

- Date Schedule : 14.02.2021 to 28.03.2021
Duration : 20 Hrs.
Time : 9.30 am to 11.30 am (On Weekends)
Venue : Google Meet
Course Fee : Rs. 500/-
Batch Strength : 30 Students; ~~may~~ may be reduced, If more than 30 members enroll)
 - Names will be enrolled on first come first serve basis
 - Fee should be paid on or before 10.02.2021

Interested students can register their name to Mr.A. Balaji/AP/MTS / KEC (9500836303).

[Signature]
Course Coordinator

(Dr.B. Meenakshipriya &
Mr.A. Balaji)

[Signature]
HOD/MTS

(Dr.B. Meenakshipriya)

Course Description: This Course provides an intuitive understanding on ROS Framework which will help the learners to leverage their knowledge in Robot Software Development. Course has been designed for undergrads to research scholars who might effectively use this course as a kick start for their development, Project or Research purpose.

Course Content:

Theory	Introduction to ROS Framework and Prerequisites - Understanding Communication in ROS: File system level, Graph level - Transformations - ROS motions and controls - ROS (Embedded and Real Time Systems).	(10 Hrs)
Practical	- ROS Ecosystem: Programming nodes, Understanding Topics, Services - ROS tf - Introduction to Simulation, Gazebo and Rviz - ROS Motion (Intermediate Level)	(10 Hrs)

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE – 638 060
DEPARTMENT OF MECHATRONICS ENGINEERING
ONE CRDEIT COURSE ON 18VAC21 ROBOT OPERATING SYSTEM

MARK SHEET

S.No.	Roll No.	Name of the Student	Assignment (20)	Assessment Test (30)	Laboratory Experiments (30)	Practical Assessment (20)	Total Marks (100)	Remarks
1	18MTL113	KARTHIKEYAN S	18	27	30	18	93	Pass
2	18MTL116	KISHOK G	15	27	30	18	90	Pass
3	18MTL117	P.LOGESH	15	26	30	17	88	Pass
4	18MTR011	ARYAN VINUNATH	19	27	30	18	94	Pass
5	18MTR030	HARI VIKINESH M	18	27	30	18	93	Pass
6	18MTR035	JASON GOUSANAL J	19	27	30	18	94	Pass
7	18MTR036	JERISH ABIJITH SINGH A S	19	26	30	17	92	Pass
8	18MTR039	KAVIN E D	20	26	30	17	93	Pass
9	18MTR043	KEERTHANA S K	20	24	30	16	90	Pass
10	18MTR049	MADHUMITHA P	20	26	30	17	93	Pass
11	18MTR050	MAHENDRA VISHNU M	18	29	30	19	96	Pass
12	18MTR051	MITHIL J	19	28	30	19	96	Pass
13	18MTR052	MOHAMED ARSATH A	18	25	30	17	90	Pass
14	18MTR055	MOHAMMED WARIES M	15	24	30	16	85	Pass
15	18MTR056	MUKSHIN HABIL. R	15	25	30	17	87	Pass
16	18MTR057	NAVEEN KUMAR S	18	25	30	17	90	Pass
17	18MTR058	NAVEEN PRABHU P	18	26	30	17	91	Pass
18	18MTR059	NAVEENKUMAR P	17	29	30	19	95	Pass
19	18MTR060	NITHIN CHARLES S	19	29	30	19	97	Pass
20	18MTR062	NITHISH KUMAR S	19	28	30	19	96	Pass
21	18MTR063	NIVAS R	15	25	30	17	87	Pass
22	18MTR065	PRADEEP KUMAR T	17	26	30	17	90	Pass
23	18MTR066	PRANAV SRERAM V	17	26	30	17	90	Pass
24	18MTR067	PRAVEENKUMAR D	19	25	30	17	91	Pass
25	18MTR069	RAGUNATHAN T	19	26	30	17	92	Pass
26	18MTR073	REVANTH M	19	30	30	20	99	Pass
27	18MTR074	SANJAI G G	19	27	30	18	94	Pass
28	18MTR075	SANJAY K	19	26	30	17	92	Pass
29	18MTR076	SANJAY K	19	26	30	17	92	Pass
30	18MTR080	SATHISH S	19	26	30	17	92	Pass
31	18MTR084	SHIVARAMAKRISHNAN AL	15	27	30	18	90	Pass
32	18MTR085	SOUNDARIYAN K	19	27	30	18	94	Pass
33	18MTR086	SREE VATHSAN Y	19	27	30	18	94	Pass
34	18MTR091	VAGISH.R.C	19	26	30	17	92	Pass
35	18MTR093	VIDHYA SHAGHAR A P	18	26	30	17	91	Pass
36	18MTR098	VISHWA V	19	29	30	19	97	Pass

(Signature)
Course Coordinator
(S. BALAJI)

(Signature)
HOD-MTS

S.No.	Roll No.	Name of the Student	No. of Hours Conducted	No. of Hours Attended	Attendance Percentage
1	18MTL113	KARTHIKEYAN S	30	30	100
2	18MTL116	KISHOK G	30	30	100
3	18MTL117	LOGESH P	30	30	100
4	18MTR011	ARYAN VINUNATH	30	30	100
5	18MTR030	HARI VIKINESH M	30	30	100
6	18MTR035	JASON GOUSANAL J	30	30	100
7	18MTR036	JERISH ABIJITH SINGH A S	30	30	100
8	18MTR039	KAVIN E D	30	30	100
9	18MTR043	KEERTHANA S K	30	30	100
10	18MTR049	MADHUMITHA P	30	30	100
11	18MTR050	MAHENDRA VISHNU M	30	30	100
12	18MTR051	MITHIL J	30	30	100
13	18MTR052	MOHAMED ARSATH A	30	30	100
14	18MTR055	MOHAMMED WARIES M	30	30	100
15	18MTR056	MUKSHIN HABIL R	30	30	100
16	18MTR057	NAVEEN KUMAR S	30	30	100
17	18MTR058	NAVEEN PRABHU P	30	30	100
18	18MTR059	NAVEENKUMAR P	30	30	100
19	18MTR060	NITHIN CHARLES S	30	30	100
20	18MTR062	NITHISH KUMAR S	30	30	100
21	18MTR063	NIVAS R	30	30	100
22	18MTR065	PRADEEP KUMAR T	30	30	100
23	18MTR066	PRANAV SRERAM V	30	30	100
24	18MTR067	PRAVEENKUMAR D	30	30	100
25	18MTR069	RAGUNATHAN T	30	30	100
26	18MTR073	REVANTH M	30	30	100
27	18MTR074	SANJAI G G	30	30	100
28	18MTR075	SANJAY K	30	30	100
29	18MTR076	SANJAY K	30	30	100
30	18MTR080	SATHISH S	30	30	100
31	18MTR084	SHIVARAMAKRISHNAN AL	30	30	100
32	18MTR085	SOUNDARIYAN K	30	30	100
33	18MTR086	SREE VATHSAN Y	30	30	100
34	18MTR091	VAGISH R C	30	24	80
35	18MTR093	VIDHYA SHAGHAR A P	30	30	100
36	18MTR098	VISHWA V	30	30	100


 Course Coordinator
 (A. BALAJI)


 HOD-MTS
 16/8/2021