Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed-to-be-University under section 3 of UGC Act 1956)
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF AERONAUTICAL ENGINEERING

NAAC
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Dr. M. Sundararaj M.E, Ph.D
Head

21/09/2017

Ref No:Cir/Aero/2017/039

CIRCULAR

This is to intimate the students that Value Added Program titled "Course on Surveillance Robot" is scheduled to be conducted from 26.09.2017 . The course will be for a duration of 30 hours and will be conducted during weekends. Further Details can contact the Course Coordinator Mr.Syedhaleem Assistant Professor Department of aeronautical Engineering.

Copy to:

1. Copy to All school of Engineering
2. Copy to Dean Engineering
3. Copy to Pro-VC
4. Copy to Office

Bharath Institute of Higher Education & Research (Declared as Deemed to be University U/S 3 of UGC Act, 1956) AERONAUTICAL ENGINEERING DEPT. Chennai-600 073.

HOD/Aero

Dr. M. SUNDARARAJ, M.E.,Ph.D.,
HOD
Department of Aeronautical Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Selaiyur, Chennai-600 073. INDIA

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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as deemed to be university under section 3 of UGC Act 1956, vide notification No.F.9-5/2000-U.3)

Department of Aeronautical Engineering

Value Added Course

Course On Surveillance Robot

List of students Registered on 26.09.2017

SNO	Reg NO	Name of the Student
1	U15AE001	NAGANANDAN A
2	U15AE004	ARAVINDAN A
3	U15AE005	ARUP RATAN PARAMANIK
4	U15AE007	BOJJA MANOJ KUMAR
5	U15AE009	CHITTOJI THANMAYI
6	U15AE010	DASARI RUFUS
7	U15AE013	DIVYA A
8	U15AE015	ERLA NAVEEN KUMAR
9	U15AE016	GADDAM MADHUSUDHAN REDDY
10	U15AE017	GANDLA SAI KEERTHANA
11	U15AE018	VASUDEVA REDDY I
12	U15AE019	ISHANT DUBEY
13	U15AE022	KM JUHI GUPTA
14	U15AE024	KUSUNURI JYOTHI SAI PAVAN
15	U15AE026	MD MUDEE ALAM
16	U15AE028	MOPOORI BHARATH KUMAR
17	U15AE031	PARASA MAHENDRA
18	U15AE033	PERCIYAL.A
19	U15AE039	SAMPATHARAO PARDHU
20	U15AE046	TYAGARAJAN BHAVANI SHANKAR
21	U14AE035	KAMAGONDA PRASAD
22	U14AE042	MOHAMMAD SADEEQ SHAH
23	U14AE050	NARHARI RAMEKAR
24	U14AE053	SUSMITHA PADAMATI
25	U14AE055	PALANI KANNAN
26	U14AE056	PENTELA GANESH
27	U14AE058	POONAM SHARMA.G
28	U14AE059	PRAGATHY.D
29	U14AE090	YASWANTH BAIDUBALLI
30	U14AE091	YOGRAJ SONAR
31	U14AE095	KARANAM SWAPNA SAI CHOWDARY.K
32	U14AE501	RAJ PRAVEEN. K
33	U14AE502	SYED SHAFATH R
34	U14AE701	SASIKUMAR S
35	U14AE702	CLEVIN ALBERT NEONGNENG
36	U14AE703	BANAIBOR KHARSHIING
37	U14CS033	BOORAGADDA VAMSI KRISHNA

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38	U14CS040	CHINTAPANTI SRIKANTH
39	U14CS044	DARA DEEPTHI
40	U14CS046	DEVARAPALLI HIMAKAR
41	U14CS049	EVELIN JUGI.R
42	U14CS051	GANESH RAJ .L
43	U14CS055	GOTTIPATI KARTHIK
44	U14EC097	MATHEGAM NIHAL REDDY
45	U14EC099	PADALA SUBRAHMANYAM
46	U14EC101	PANDEM RAGHAVENDRA REDDY
47	U14EC103	PAPUGANI PARTHASARADHI.
48	U14EC104	PEDINEEDI VIJAYA BHARGAVI
49	U14EC106	PENGALAPATI BHARATHI
50	U14EC108	PONNAGANTI MANOJ DEEP
51	U14EC138	SRINIVASAN .S
52	U14EC141	SWETHA HARIDASAN
53	U14EC147	RANGASAMUDRAM TEJASWINI
54	U14EC160	MADDIBAI VEERESHGOUD
55	U14EC167	YADALA THRINADH
56	U14EC513	RAGULKANTH A
57	U14MT015	RAJESH.M
58	U14MT701	YUVARAJ. S
59	U14MT704	APPU JAYAN
60	U14MT708	R.ASHWIN EZHINI PAVAZHA VENDHAN
61	U14MT709	HARIHARAN.D

Department of Aeronautical Engineering

Value Added Course

Course on Surveillance Robot

Objective :

This course involves you to build multiple projects and helps you develop a good understanding of Android (Microcontrollers) practically. After completion of the course you will learn:
Robots Applications,Sensors Importance,Robot's locomotion,Working of DC motors & motor driver circuit
Raspberry Pi Architecture and its Programming,Input/output interface and Importance of Micro Electro

Course Co-ordinator: Mr.Syedhaleem

COURSE LAYOUT

SNO	Date	Course Content	Duration	Instructor
1	26.09.2017	Introduction to Robotics,Types of Robot and its applications.	3 Hour	Mr Vinoth Kumar Assistant Professor Department of Mechanical Engineering-VELS University
2	30.09.2017 (FN)	Robot kinematics, Control scheme-Sensors and its Importance in Surveillance Robots,Image	3 Hour	Mr Jayakanth Assistant Professor Department of Mechatronics-VELS University
3	30.09.2017 (AN)	Build your Computer using Raspberry Pi-What is Raspberry Pi, Raspberry Pi Board, Powering Raspberry Pi,Installing OS on your Raspberry Pi, Raspberry Pi – Formatting SD Card,Raspberry	3 Hour	Mr.Ruben Assistant Professor Department of Mechatronics VELS University
4	07.10.2017 (FN)	Remote Desktop Connection-Internet Sharing From PC to Raspberry Pi, Power up the Raspberry Pi, Raspberry Pi – Setup SSH connection using Putty,Enable the Raspberry Pi to access the Internet, Access the	3 Hour	Mr.Ruben Assistant Professor Department of Mechatronics VELS University
5	07.10.2017 (AN)	Make your Surveillance Robot Move-Final Connections for the Surveillance Robot, Python Programming – An Introduction,Blink LED using Raspberry Pi-Connect PC to RPi;	3 Hour	Mr Deepak Assistant Professor Department of ECE Mohammad Sathak college of Engineering

6	14.10.2017 (FN)	Computer Vision – Concepts, Basics,Installation of Python 3 in Windows, Installation of Open CV & Other Packages for Image Processing, Setting up the Working Directory for OpenCV,Read an Image using Open CV,Save Image using waitKey Function in Open CV.	3 Hour	Mr Jayakanth Assistant Professor Department of Mechatronics-VELS University
7	14.10.2017 (AN)	Computer Vision – Basic Concepts of an Image,Computer Vision – Concepts, Basic Operations.	3 Hour	Mr Jayakanth Assistant Professor Department of Mechatronics-VELS University
8	21.10.2017 (FN)	Stream Video over WiFi- Stream Live Video using Raspberry Pi over Wi-Fi,Installation of Open CV in Raspberry Pi, Live Stream Video over Wi-Fi using Raspberry	3 Hour	Mr Bharath Kumar, Assistant Professor Mohammad Sathak college of Engineering
9	21.10.2017 (AN)	Programming Logic for the Surveillance Robot, Program for the Video Surveillance Robot.	3 Hour	Mr Nathan Oli Assistant Professor Madha Engineering College
10	28.10.2017 (FN)	Future of Robotics- Micro Electro-Mechanical Systems	3 Hour	Mr Nathan Oli Assistant Professor Madha Engineering College

BOOKS AND REFERENCES	
1	INTRODUCTION TO ROBOTICS:uthor: S Saha Publisher: McGraw Hill Education India Pvt Ltd
2	Introduction to Autonomous Mobile Robots 2e (Intelligent Robotics)Author: Roland Siegwart, Illah R. Nourbakhsh, Davide Scaramuzza
3	Programming the Raspberry Pi, 2nd Edition: Getting Started with Python-Simon Monk
4	Exploring Raspberry Pi: Interfacing Real World with Embedded Linux-Willey
5	Micro Electro Mechanical Systems(MEMS)-Thiyagarajan
6	Micro Electro Mechanical Systems(MEMS)Zheng Yun Man

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Department of Aeronautical Engineering

Certificate of Participation

This acknowledges that

EVELIN JUGI.R
U14CS049

Has undertaken 30 hours course on **"COURSE ON SURVEILLANCE ROBOT"**
Organized by DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 26.09.2017 TO 28.10.2017.

MR.SYEDHALEEM , PROGRAM COORDINATOR

HOD/AERO

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Department of Aeronautical Engineering

Certificate of Participation

This acknowledges that

DASARI RUFUS
U15AE010

Has undertaken 30 hours course on **"COURSE ON SURVEILLANCE ROBOT"** Organized by DEPARTMENT OF AERONAUTICAL ENGINEERING, BIHER FROM 26.09.2017 TO 28.10.2017.

MR.SYEDHALEEM , PROGRAM COORDINATOR

HOD/AERO

Participant Feedback Form

(On course completion)

Date ...28/10/2017...

Course .....COURSE ON SURVILLENCE ROBORT.....

Student Name (optional) .....SRINIVASAN.S.....

Student ID (optional) .....U14EC138.....

a) Helpful and knowledgeable staff:

☐ Very satisfied ☑ Satisfied ☐ Somewhat satisfied ☐ Not satisfied

b) Staff friendliness:

☐ Very satisfied ☑ Satisfied ☐ Somewhat satisfied ☐ Not satisfied

C) Ease of registration:

☐ Very satisfied ☑ Satisfied ☐ Somewhat satisfied ☐ Not satisfied

2. Is there anything we can improve with our registration process?

.....

B. The Training Facility

3. How satisfied were you with the training facility on the follow

a) Cleanliness of facility:

☐ Very satisfied ☑ Satisfied ☐ Somewhat satisfied ☐ Not satisfied

b) Comfort of training room:

☐ Very satisfied ☑ Satisfied ☐ Somewhat satisfied ☐ Not satisfied

4. Is there anything we can improve with any of the above?

.....

Participant Feedback Form

(On course completion)

Date ..28/10/2017.....

Course ..Course.....on.....Surveillance.....Robot.....

Student Name (optional) ..Gyaneshraj.L.....

Student ID (optional) ..U14CS051.....

a) Helpful and knowledgeable staff:

☑ Very satisfied ☐ Satisfied ☐ Somewhat satisfied ☐ Not satisfied

b) Staff friendliness:

☑ Very satisfied ☐ Satisfied ☐ Somewhat satisfied ☐ Not satisfied

C) Ease of registration:

☑ Very satisfied ☐ Satisfied ☐ Somewhat satisfied ☐ Not satisfied

2. Is there anything we can improve with our registration process?

.....

B. The Training Facility

3. How satisfied were you with the training facility on the follow

a) Cleanliness of facility:

☑ Very satisfied ☐ Satisfied ☐ Somewhat satisfied ☐ Not satisfied

b) Comfort of training room:

☐ Very satisfied ☑ Satisfied ☐ Somewhat satisfied ☐ Not satisfied

4. Is there anything we can improve with any of the above?

.....We need more practical session.....

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Value Added Course

Course on Surveillance Robot

Our Instructor" Mr Vinoth Kumar Assistant Professor Department of Mechanical Engineering-VELS University" is Handling the session to our registered participants on Robotics