

Requisition Letter

Date: 04/07/2018

From
The HOD
Department Of Mechatronics
Bharath Institute of Higher Education and Research
Selaiyur, Chennai-600073

To
The Dean Engineering
Bharath Institute of Higher Education and Research
Selaiyur, Chennai-600073

Respected Sir,

Subject: Requisition for conducting Value added Course-reg

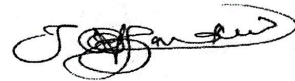
School of Mechanical Sciences has planned to conduct value added course on "Robot Motion Planning" on 08-08-2018. In this regard we kindly request you to grant permission for the same.

Thanking you



HOD/Mechatronics

Dr. P. SENGOTTUVEL,
PROFESSOR
DEPARTMENT OF MECHATRONICS
BHARATH UNIVERSITY,
CHENNAI-600 073



Dean Engineering



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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Date: 07.07.2018

Department of Mechatronics

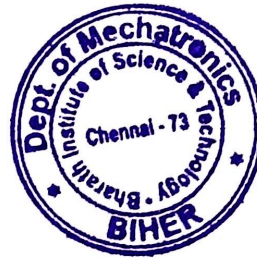
Circular

The Department of Mechatronics, BIHER is glad to conduct a 5 - day Value Added Program on “**ROBOT MOTION PLANNING**” dated from 08.08.2018 for a period of 30 hours. Those who are interested to participate do register your name with the program coordinator mentioned below.

Resource persons:

Dr.P. Sengottuvel,
Professor,
BIHER

Mr. Karthick
E Park St,
Shenoy Nagar,
Chennai



Maximum No. of registration Allowed – 40

***First come first serve basis.**

Program Coordinator:

Mrs.V.G. Vijaya

V. G. Vijaya

Assistant Professor

Mrs.G.Vasumathi

Assistant Professor

E-Mail: vijayasaravan84@gmail.com

vasu.bala06@gmail.com

Mobile: 8870136732 / 9962133365



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Department of Mechatronics

Robot Motion Planning

OBJECTIVES:

This course will focus on principles used in motion planning algorithms; i.e. algorithms that allow a robot move in a cluttered environment while avoiding collisions with obstacles. In particular, classic planning algorithms are employed when the geometry of the robot's stationary surroundings is known in advance.

[DAY: 1]

MODULE 1

(6 Hrs)

Motion planning overview. • Sensor-based motion planning: the bug algorithms.

[DAY: 2]

MODULE II

(6 Hrs)

• Workspace decomposition and search algorithms on graphs (basic search on graphs, A* , and overview of D*) • Configuration Space and configuration-space obstacles.

[DAY: 3]

MODULE III

(6 Hrs)

• Sampling-based motion planning (probabilistic roadmaps, RRTs, collision-checking primitives)

[DAY: 4]

MODULE IV

(6 Hrs)

Brief overview of kinematic and dynamic models for robots; an introduction to local motion planners

[DAY: 5]

MODULE V

(6 Hrs)

The robot navigation problem: the Kalman filter, the Extended Kalman filter, Bayesian estimation, Kalman-filter-based SLAM and the data association problem



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FEEDBACK FORM

- ❖ As part of a continuing improvement process, our college appreciates suggestions and inputs regarding the institution. We request you to sincerely answer these questions under assurance of complete confidentiality. Your interest in making our institution better is greatly appreciated.

Name of Department : Mechatronics

Date : 14-8-2018

Event / Speaker Name : Robot Motion Planning

- Please rate the session on the scale indicated. Your comments are most appreciated.

S.NO	Parameters	Below Average	Average	Good	Excellent	Outstanding
1.	The Topic				✓	✓
	The choice of topic was relevant to me				✓	
2.	The Lecturer / Speaker				✓	
	Self-confidence				✓	
	Communication skills				✓	
	Doubts/ queries were answered satisfactorily			✓		
3.	The Content (Topic)				✓	
	Refers to latest developments in the field			✓		
	Career oriented					
	Innovative learning, if any				✓	✓

- Overall, how would you rate this Guest Lecture / Workshop / Seminar / Event/Value added course?

1. Below Average	2. Average	3. Good	4. Excellent	5. Outstanding
			✓	

- Comments (If any):



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FEEDBACK FORM

- ❖ As part of a continuing improvement process, our college appreciates suggestions and inputs regarding the institution. We request you to sincerely answer these questions under assurance of complete confidentiality. Your interest in making our institution better is greatly appreciated.

Name of Department : School of mechanical
Date : 14/08/2018
Event / Speaker Name : Mr. Karthick / Robot motion Planning

- Please rate the session on the scale indicated. Your comments are most appreciated.

S.NO	Parameters	Below Average	Average	Good	Excellent	Outstanding
1.	The Topic					
	The choice of topic was relevant to me				✓	
2.	The Lecturer / Speaker					
	Self-confidence				✓	
	Communication skills					✓
	Doubts/ queries were answered satisfactorily			✓		
3.	The Content (Topic)					
	Refers to latest developments in the field			✓		
	Career oriented				✓	
	Innovative learning, if any				✓	



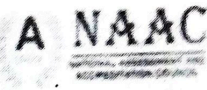
- Overall, how would you rate this Guest Lecture / Workshop / Seminar / Event/Value added course?

1. Below Average	2. Average	3. Good	4. Excellent	5. Outstanding
			✓	

- Comments (If any):

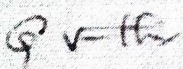
- Good -


Model Certificate


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Bharath Institute of Science and Technology

CERTIFICATE OF PARTICIPATION

This is to certify that
Prof./Dr./Mr./Ms. DINESHKUMAR S (U17MT060)
of
BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY, BIHER, CHENNAI.
He/She has Participated in a Seminar On "ROBOT MOTION PLANNING" Organized by the School of Mechanical Sciences , Department of Mechatronics , on 8th Aug 2018


Coordinator
Mrs.G. Vasumathi


Convener
Dr.P.Sengottuvel


Dean-Engineering
Dr.J.Hameed Hussain

Certificate No : BIST/MT/VAC/040



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Department of Mechatronics

Value Added Course – Robot Motion Planning





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Department of Mechatronics

Value Added Course -Robot Motion Planning

PARTICIPANTS LIST

S.No	Reg.No	Name	Department
1.	U17MT042	METHIL KRISHNAN A H	Mechatronics
2.	U17MT044	BADDITI YESOBU	Mechatronics
3.	U17MT045	ABDUL RAHAMAN S	Mechatronics
4.	U17MT046	VIGNESHWARAN V	Mechatronics
5.	U17MT048	PALANIYAPPAN S	Mechatronics
6.	U17MT049	NIKHILANTONY K J	Mechatronics
7.	U17MT050	THIRUMURUGAN G	Mechatronics
8.	U17MT051	BOLLEDDU RAVI TEJA .	Mechatronics
9.	U17MT052	SATHISH KUMAR S	Mechatronics
10.	U17MT053	GOKULAKRISHNAN U	Mechatronics
11.	U17MT054	VASANTH S	Mechatronics
12.	U17MT055	YOKESH RAJ V	Mechatronics
13.	U17MT056	SURYA PRAKASH N	Mechatronics
14.	U17MT057	SREE MUKESH R V	Mechatronics
15.	U17MT058	NAGARAJ P	Mechatronics
16.	U17MT059	RAKKESH ARAVIND G	Mechatronics
17.	U17MT060	DINESHKUMAR S	Mechatronics

18.	U17MT061	MOHAMMED ABBAS A	Mechatronics
19.	U17MT501	ADITHIYA M	Mechatronics
20.	U17MT502	MUTHU VIJAY RAJA V	Mechatronics
21.	U17ME021	DARAM PRITHVI RAJ	Mechanical
22.	U17ME045	JEYABHARATHI	Mechanical
23.	U17ME066	YETTELLA BHUVANESWARA REDDY	Mechanical
24.	U17ME072	CHITTIREDDY	Mechanical
25.	U17ME075	VEDURUPARTHY KANAKA VENKATA SURESH	Mechanical
26.	U17ME090	LOKIREDDY VENKATA SHIVA KUMAR	Mechanical
27.	U17ME101	KATTA GOPI KRISHNA	Mechanical
28.	U17ME102	HARISH	Mechanical
29.	U17ME120	SUDDAPALLI JASWANTH SAI KUMAR	Mechanical
30.	U17ME125	BURRAREDDYPALLE	Mechanical
31.	U17ME131	DASARI	Mechanical
32.	U17ME135	VEMULA CHANDU PRASAD	Mechanical
33.	U17ME140	PONKAM VARUN KUMAR	Mechanical
34.	U17ME144	ANNA PRUDHVI GOUTAM	Mechanical
35.	U17ME149	SIRAMMAGARI SASI KUMAR REDDY	Mechanical
36.	U17ME163	NALLA SRINATH REDDY	Mechanical
37.	U17ME171	KARRI PAVAN KALYAN	Mechanical
38.	U17ME173	NALAJAM MOHAN SAI	Mechanical
39.	U17ME178	ENUKONDA NIVAS RAJU	Mechanical
40.	U17ME192	YADHAVA SURYA	Mechanical
41.	U18AM025	MULA DHAMODHAR REDDY	Automobile
42.	U18AM026	MOGHAL RAHEL BAIG .	Automobile
43.	U18AM027	BANDARUPALLI NAVEENCHOWDARY	Automobile

44.	U18AM028	ANUMULA SANTHOSH REDDY	Automobile
45.	U18AM029	DHILIPSAGAR M	Automobile
46.	U18AM031	POLLAMPALLI BHANU PRAKASH .	Automobile
47.	U18AM032	KOLLI NIRANJAN	Automobile
48.	U18AM034	LALCHHUANAWMA .	Automobile
49.	U18AM035	VIDUDHALA GURU VAMSI .	Automobile
50.	U18AM036	SREENUVAS ADAPUREDDI	Automobile
51.	U18AM037	HARIRAM K	Automobile
52.	U18AM038	KIRAN J R	Automobile
53.	U18AM039	SURYAKUMAR S	Automobile
54.	U18AM040	CHAKKA VENKATA CHENNA PAVAN KALYAN	Automobile
55.	U18AM041	JAYA SURYA R	Automobile
56.	U18AM042	RAKESH S	Automobile
57.	U18AM043	JEYABHARATHI R	Automobile
58.	U18AM044	SURIYA S	Automobile
59.	U18AM045	THIRUGNANA SAMMANDAM R	Automobile
60.	U18AM046	PADALA RAM MOHAN RAO	Automobile

