

G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade | Accredited by NBA (CSE, ECE & EEE) | Affiliated to JNTUA)

Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

DATE: 11-07-2019

To

The Principal, GPCET, Kurnool.

Sir,

Sub: Approval of ADD-ON course for II ME, III ME & IV ME Students-Regd

The department of ME requests you to accept the proposal for conducting ADD-ON Course on "Advanced Robotics" for the odd semester of II, III & IV year ME students scheduled for the duration of 42 hours. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

HOD-ME

G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)



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Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

Department Circular -ADD-ON Course

DATE: 12-07-2019

The II year, III year & IV year-I semester ME Students are informed to enroll their names for ADD-ON Course on "Advanced Robotics" with their respective class-in-charges on or before 14-09-2019. The course commences from 15th August and the duration of the course is for 42 hours. The course is conducted from 4 pm to 5 pm regularly.

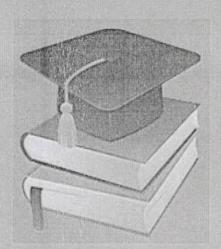
Bus facility is made available soon after the class work.

HOD-ME



G. PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Department Of Mechanical Engineering



ADD ON COURSE

Topic :Advanced Robotics
Target audience : II and III Year Students
Total CoursesDuration: 42 hrs
Selection Procedure : Registration on First

come First serve basis



Date of commencement of the course : 15 July , 2019. End of Course : 09 Oct, 2019. Exam Date: 10 Oct, 2019.

Round

SYLLABUS FOR ADD-ON COURSE ON ADVANCED ROBOTICS

DAY	TOPICS	
1	Introduction, transformations	
2	DH Parameters	
3	Forward and Inverse Kinematics, redundancy resolution	
4	Velocity kinematics and Jacobian	
5	Singular value decomposition, singularity and manipulation ability	
6	Trajectory planning , dynamics	
7	Sensors and actuators as used in robotics	
8	Basics of linear control – PD, PID	
9	controller, model based control, stability	
10	Multi finger grasping – form, force closures, grasp matrix	
11	Locomotion – active and passive walkers, concepts of balance	
12	Biped Gait and Balance using ZMP, kinematics	
13	dynamic modeling of walk	
14	Design and Optimization of legged mechanisms	
15	Introduction, transformations	
16	DH Parameters	

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G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY: KURNOOL (Autonomous) Department of Mechanical Engineering

The following is the list of the students who have attended Add on Course on "Advanced Robotics"

17th Batch Students

S.No	ROLL NO	Name of the Candidate	
1	17AT1A0301	SYED AALE RASOOL	
2	17AT1A0302	SHAIK AFZAL AHMMED	
3	17AT1A0303	KATIKA ALLAH BAKASH	
4	17AT1A0304	PAGADAM ANANDA SWAROOP KUMAR	
5	17AT1A0306	MADDIGATLA CHARAN TEJA	
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31	17AT1A0332	BUDARAPU RAGHAVENDRA	
32	17AT1A0333	SHAIK RAHAMAN	
33	17AT1A0334	PEDISELA RAJA PRAVEEN	



34	17AT1A0335	GURRAM REVANTH	
35	17AT1A0336	MADANAKANTI SAI KIRAN	
36	17AT1A0337	CHAWAN SAIASHWIN	
37	17AT1A0338	PINJARI SALEEM BASHA	
38	17AT1A0339	SEMIKALA SANJEEVA REDDY	
39	17AT1A0340	SABOLU SATHESH	
40	17AT1A0342	BOYA SUDHEER KUMAR	
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51	16AT1A0352	MOHAMMAD ZAID	
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53	18AT5A0302	KURUVA BHARATH KUMAR	
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56	18AT5A0306	GELLELA GANESH REDDY	
57	18AT5A0307	KURUVA MALLIKARJUNA	
58	18AT5A0308	SHAIK MOHAMMAD ISHAQ	
59	18AT5A0309	GOLLA PARASHURAM	
60	18AT5A0311	BOYA PURUSHOTHAM	
61	18AT5A0312	KUMMARI RAVI KUMAR	
62	18AT5A0313	MADARA BOYINA SAI KRISHNA	
63	18AT5A0314	BOYA SAI KUMAR	

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5	16AT1A0305	BOGGULA CHAKRAVARTHI
6	16AT1A0306	MALIGAPOGU CHARAN

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7	16AT1A0308	SHAIK FAIROZ AHMED	
8	16AT1A0309	OMKARAM HARSHA VARDHAN RAJL	
9	16AT1A0310	MEKALA JAYANTH YADAV	
10	16AT1A0311	SHAIK KARIMULLA	
11	16AT1A0313	S MD UMAR KHALID	
12	16AT1A0314	SHAIK MD FAZIL	
13	16AT1A0315	SHAIK MOHAMMAD ABBAS	
14	16AT1A0316	OBALE MOHAMMAD HASHAM	
15	16AT1A0317	B MOHAMMAD RAFI	
16	16AT1A0318	SHAIK MOHAMMED SAMEEM SAQLAIN	
17	16AT1A0319	KOLIMI MUZAMMIL AHMED	
18	16AT1A0320	G NAGARJUNA REDDY	
19	16AT1A0321	POTHIREDDYGARI PAVANKUMAR REDDY	
20	16AT1A0322	KALANGI PRASAD	
21	16AT1A0323	K RAGHAVENDRA	
22	16AT1A0324	K RAHUL SAI	
23	16AT1A0325	GUDLA RAJINI ROHITH	
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29	16AT1A0332	MADICHIKYAM SANDEEP	
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33	16AT1A0336	C H K SHAM SUNDAR	
34	16AT1A0337	SENIVARAPU SOWMYA	
35	16AT1A0338	C SRIHARI	
36	16AT1A0339	MARAM SUMANTH	
37	16AT1A0340	SALE SURESH	
38	16AT1A0341	P SUSHANTH KUMAR	
39	16AT1A0342	MASEPOGU SUSMITHA	
40	16AT1A0343	RODDA TARAKESHAVULU	
41	16AT1A0344	KASIREDDY USHARANI	
42	16AT1A0345	SREE BAREED VAMSHI KRISHNA	
43	16AT1A0347	MANDA VENUGOPAL	
44	16AT1A0348	VADLA VIHARI ACHARI	
45	16AT1A0349	KURNI VIJAY	
46	16AT1A0350	K VISWANATH REDDY	

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47	16AT1A0351	K YESHWANTH NAIDU		
48	17AT5A0301	K AMARESHWARA CHARY		
49	17AT5A0302	KALLURI ASHOK		
50	17AT5A0303	GUTURU BHARATH KUMAR		
51	17AT5A0304	DANIKONDA CHANDRA SEKHAR REDDY		
52	17AT5A0305	KADIYAM JAGADEESH		
53	17AT5A0306	SHAIK MAHAMMAD SANAVULLA		
54	17AT5A0307	MALLEMDODDI MALLIKARJUNA		
55	17AT5A0308	SHAIK MUNEER AHAMMED		
56	17AT5A0309	KAIRUPPALA SREEKANTH		
57	17AT5A0310	VADDE SUDHEER KUMAR		
58	17AT5A0311	DESAPOGU MADIGA SUMANRAJU		
59	17AT5A0312	SANJEPOGU DIVYA KIRAN		
60	17AT5A0313	KAMMARI SAI KUMAR		
61	17AT5A0314	SHAIK SHAIKSHAVALI		
62	17AT5A0315	SAYYED MURTHUJAVALI		



G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOG DEPARTMENT OF MECHANICAL ENGINEEERING ADDON COURSE SCHEDULE

Date: 15/07/2019

Date: 15/0//2019				
III & IV YEAR – I Semester				
Course	Faculty	Duration		
Introduction, transformations	DR.SATIESH BABU	3 hours		
DH Parameters	DR.SATIESH BABU	3 hours		
Forward and Inverse Kinematics, redundancy resolution	DR.SATIESH BABU	2 hours		
Velocity kinematics and Jacobian	Dr.K.MALLIKARJUNA	3 hours		
Singular value decomposition, singularity and manipulation ability	Dr.K.MALLIKARJUNA	2 hours		
Trajectory planning , dynamics	Dr.K.MALLIKARJUNA	2 hours		
Sensors and actuators as used in robotics	N.GOVINDA RAO	2 hours		
Basics of linear control – PD, PID	N.GOVINDA RAO	2 hours		
controller, model based control, stability	N,GOVINDA RAO	2 hours		
Multi finger grasping – form, force closures, grasp matrix	S. JAVEED	2 hours		
Locomotion – active and passive walkers, concepts of balance	S. JAVEED	2 hours		
Biped Gait and Balance using ZMP, kinematics	S. JAVEED	2 hours		
dynamic modeling of walk	A.RAMAANJANEYA REEDY	2 hours		
Design and Optimization of legged mechanisms	A.RAMAANJANEYA REEDY	2 hours		

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G. PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

II, III & IV B. Tech I SEM Objective Paper – Assessment

Sub: Advanced Robotics Branch: MECHANICAL ENGINEERING
Date: 09/10/2019

Time: 30 min Roll No:	Max.Marks:		
I.MULTIPLE CHOICE QUESTIONS	Invigilator s	gnatur	e:
1. Which of the following is NOT a typical application of advance	ced robotics?]]
a) Industrial automation b) Healthcare assistance c) Agrico manufacturing	ultural farming	d) Trac	ditional
2. What does the term "cobots" refer to in the context of advan	nced robotics?]]
a) Robots designed for heavy lifting b) Collaborative robots humans c) Robots specialized in underwater exploration d) R intelligence			_
3. Which of the following is an advantage of using articulated ro	bots in manufact	uring?	[]
a) Limited range of motion b) High precision and flexibility c) work in confined spaces	Low initial cost	d) Inab	oility to
4. What is the primary purpose of force-torque sensors in adva	nced robotics?]]
a) Detecting temperature changes b) Measuring the speed of forces and moments d) Providing visual feedback to the operat		ensing o	contact
5. Which programming language is commonly used for controll	ing industrial rob	oots?[]
a) Python b) C++ c) Java d) Robot-specific languages like RAPID	or Karel		
6. What does the term "end effector" refer to in robotics?]]
a) The last link in a robotic arm b) The power source of the robot of the robot d) The sensor array of the robot	c) The programi	ming int	terface
7. Which type of advanced robotics is specifically designed behaviour?	to mimic hum	an or a	
a) Industrial robots b) Autonomous robots c) Bio-inspired robot	ts d) Teleoperate	d robot	ts
8. Which of the following is a challenge in the development of I	numanoid robots	5? []
a) Limited power supply b) Lack of computational power of the computation	c) Balancing an	d locor	notion
9. What is the primary function of hantic feedback systems in r	photic surgery?	r	1

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 a) Providing visual feedback to the surgeon b) Enhancing the dexterity c) Simulating the sense of touch for the surgeon d) Controlling the robot autonomously 		
10. Which of the following is NOT a common sensor used in advanced robotics?] ']
a) LiDAR b) Radar c) Lid d) Inertial Measurement Unit (IMU)		
11. What is the primary purpose of a manipulator in robotics?	[]
a) Providing power to the robot b) Controlling the robot's movement c) Manipu in the environment d) Interpreting sensor data	lating ob	jects
12. What is the main advantage of parallel robots compared to serial robots?	[]
a) Higher precision b) Lower cost c) Greater range of motion d) Simpler design		
13. What is the primary function of machine vision systems in advanced robotic	s? []
a) Sensing touch and pressure b) Navigating the robot in complex environment visual feedback and object recognition d) Controlling the robot's movement aut		
14. Which of the following is NOT a method of locomotion for mobile robots?	[]
a) Wheeled b) Legged c) Hovering d) Swimming		
15. What does the term "teleoperation" refer to in robotics?]]
a) Controlling a robot remotely b) Programming a robot's autonomous behavior human-like movements in robots d) Integrating sensors into a robot's control sys		ating
16. Which of the following is a challenge in the development of swarm robotics?	? []
a) Limited scalability b) High cost of implementation c) Centralized control d) Ro coordination	bustness	and
17. What is the primary function of kinematic redundancy in robotics?	[]
a) Enhancing the robot's speed b) Providing redundant safety features c) Allow to adapt to unforeseen obstacles d) Increasing the robot's range of motion and f		
18. Which of the following is a common application of underwater robotics?]]
a) Agriculture b) Mining c) Space exploration d) Oil and gas exploration		
19. What is the primary purpose of a sensor fusion system in robotics?	[]
a) Combining data from multiple sensors for better accuracy b) Reducing the sensors used in the robot c) Enhancing the robot's processing speed d) Controlling movement autonomously		
20. What is the main advantage of soft robotics over traditional rigid robotics?]]
a) Higher precision b) Lower cost c) Ability to handle delicate objects and interaction by Greater speed	ct safely v	with
	Zout	

21. Which of the following is NOT a common use of drones in advanced robotics	? []
a) Surveillance b) Package delivery c) Agricultural spraying d) Deep-sea exploration	n	
22. What is the primary purpose of impedance control in robotics?	[]
 a) Regulating the robot's power supply b) Adjusting the robot's compliance in inter the environment c) Improving the robot's accuracy in movement d) Enhancing visual feedback 		
23. Which of the following is a typical challenge in development of exoskeletons?	'[]
a) Limited battery life b) Lack of structural stability c) Inability to provide assistance d) Difficulty in controlling the user's movements	e to the (user
24. What is the primary function of a gripper in robotics?]]
a) Providing power to the robot b) Controlling the robot's movement c) Manipula in the environment d) Interpreting sensor data	ating obj	ects
25. Which of the following is a consideration in development of autonomous robo	ots?[]
a) Lack of computational power b) Limited sensor capabilities c) Safety an d) Dependence on human operators	d reliab	ility

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G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY: KURNOOL (Autonomous) Department of Mechanical Engineering

The following is the list of the students who have attended Add on Course on "Advanced Robotics"

17th Batch Students

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33	16AT1A0336	C H K SHAM SUNDAR	6
34	16AT1A0337	SENIVARAPU SOWMYA	18
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36	16AT1A0339	MARAM SUMANTH	21
37	16AT1A0340	SALE SURESH	22
38	16AT1A0341	P SUSHANTH KUMAR	12
39	16AT1A0342	MASEPOGU SUSMITHA	17
40	16AT1A0343	RODDA TARAKESHAVULU	18
41	16AT1A0344	KASIREDDY USHARANI	19
42	16AT1A0345	SREE BAREED VAMSHI KRISHNA	20
43	16AT1A0347	MANDA VENUGOPAL	22
44	16AT1A0348	VADLA VIHARI ACHARI	18
45	16AT1A0349	KURNI VIJAY	20
46	16AT1A0350	K VISWANATH REDDY	19
47	16AT1A0351	K YESHWANTH NAIDU	15



48	17AT5A0301	K AMARESHWARA CHARY	21
49	17AT5A0302	KALLURI ASHOK	16
50	17AT5A0303	GUTURU BHARATH KUMAR	6
51	17AT5A0304	DANIKONDA CHANDRA SEKHAR REDDY	18
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54	17AT5A0307	MALLEMDODDI MALLIKARJUNA	12
55	17AT5A0308	SHAIK MUNEER AHAMMED	17
56	17AT5A0309	KAIRUPPALA SREEKANTH	A
57	17AT5A0310	VADDE SUDHEER KUMAR	21
58	17AT5A0311	DESAPOGU MADIGA SUMANRAJU	20
59	17AT5A0312	SANJEPOGU DIVYA KIRAN	18
60	17AT5A0313	KAMMARI SAI KUMAR	17
61	17AT5A0314	SHAIK SHAIKSHAVALI	8
62	17AT5A0315	SAYYED MURTHUJAVALI	20

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