Anekant Education Society's

Tuljaram Chaturchand College of Arts, Science and Commerce Baramati (Autonomous)

Department Of Computer Science

Seminar Report on "Fundamentals of Robotics"

Date	: Tuesday, October 22nd 2019	
Time	: 2.00 pm to 5 pm	
Venue	: Seminar Hall, Computer Science Department	
Attendees	: M.Sc. (Computer Science) II students	
Organizers	: Computer Science Department	
Resource Person	: Mr. Akshay Bhapkar.	
	Mr. Vishal Bhagwat.	

About Resource Person:

- Mr. Akshay Bhapkar sir is Assistant Professor at Mechanical department of Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati. He has done his M.E. In Design and Mechanical. He has 6 years of teaching experience. Along with this he has 2 years of industrial experience. He is expert in CAD and CAE.
- Mr. Vishal Bhagwat sir is Assistant Professor at Mechanical department of Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati. He has done his M.Tech. In manufacturing from National Institute of Technology, Calicut, Kerala. He has 8 years of teaching experience. He is expert in the field of manufacturing, material science, robotics and automation.

Brief Report of the Seminar:

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This Seminar was organized by Computer Science Department of Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati (autonomous).The Seminar started with the welcome address and felicitation of guests. Ms. Kalyani Londhe welcome and introduced the Guests. Mr. Upendra Choudhari Sir HOD, Computer Science Department, has felicitated Mr. Vishal Bhagwat Sir with the Book. He also felicitated Mr. Akshay Bhapkar Sir with the Book. Mr. Akshay Bhapkar Sir started the seminar with introduction of robotics. He told that robotics is multidisciplinary field with the domains mechanical, electrical and computer science. He thoroughly explained the basic three laws of robotics. After that he told various types of robots like manual robot, variable sequence robot, numeric robot, playback robot, Intelligent Robot, mobile robots, educational robots, domestic robots etc. He explained in detail the basic components of robot. He explained robotic components with the help of human body. He told our students that for robotics DARL, VAL II, RAIL, AML, KAREL, Robpac/C programming languages are currently used in the industry. He said Nowadays most of the applications are built upon the robotics. He explained various applications like spray painting, welding, laboratory applications, aerospace, medical applications, material handling automotive industry etc. He also explained various advantages and disadvantages of robots.

After that students from mechanical department of Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati explained their project of "Analysis and Modeling of Robotic Arm". The student's team showed live demo of robotic arm.

Mr. Vishal Bhagwat Sir explained in detail all the mathematical calculations used for that project. He explained the various concepts like Matrices, rotations, transformations, gripping tools, D-H parameters, roll, pitch and yow angles, trajectory planning etc.

Total 36 students from M.Sc. computer science II benefited from this Seminar. Mrs. Attar N.S., Mrs. Gavimath P.M and Mr. Kapase D.M. maintained discipline and collected feedback forms from the students. The session ended with the vote of thanks from Ms. Kalyani Londhe. This report is submitted for your kind information.

Prof. Choudhari U.D. Head Department of Computer Science

Department of Computer Science

Dt. 17.10.2019

Τo,

The Principal,

Tuljaram Chaturchand College of Arts, Science & Commerce, Baramati

Subject : About organizing a skill based seminar on Robotics.

R/Sir,

Department of Computer Science willing to organize a one day Seminar on Fundamental of Robotics and embedded Programming for M.Sc.(Computer Science)-II Year Students purpose under the skill development course. The seminar contains two sessions, on 22nd October 2019. Seminar is delivered by Mr. Akshay Bhapkar, Dept. of Mech. Eng., V.P. Engineering College, Baramati. So kindly allow to organize such seminar, their Remuneration of Rs.1200/- for the same and their local hospitality.

Thanking you

Allowed

Yours faithfully

Mr. U.D. Choudhari Head Dept. of Computer Science

Anekant Education Society's

Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati

(Autonomous)

Department of Computer Science

NOTICE

Date: 19/10/2019

All Students of M.Sc. (Computer Science) II are hereby informed that Computer Science department is organizing seminar on **"Fundamentals of Robotics"** for skill development on **Tuesday 22/10/2019** delivered by Mr. Akshay Bhapkar and Mr. Vishal Bhagwat from Mechanical department of Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati.

Venue: Seminar Hall (Computer Science Department) **Time:** 2.00 pm to 5.00 pm

Prof. Choudhari U.D. Head Department of Computer Science

22/10/2019

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Attendancestiet of Seminar On Fundamental Of Robofics

Msc (computer science) Ind year

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36 Potal Student : -

Anekant Education Society's Tuljaram Chaturchand Arts, Science and Commerce College, Baramati Entrepreneurship Development Cell Seminar on Fundamental of Robotics Feedback sheet Date:-22/10/2019

1. Knowledge and information gain from participants at this event is useful.

2. Today's seminar activity conducted by our department is very thankful and knowledgeable. Yes No

No

3. Today's speaker is share much more knowledge or information for about basics of robotics. Yes

No

4. Can you agree with this seminar content and can you understand overall flow of seminar. Yes No

No

5. Today's seminar topic is motivated you and give new ideas of fundamental robotics.

No 6. Are you interested make carrier in Robotics.

> Yes No

7. Robot is harmful or useful.

Yes

Yes

Harmful Useful Can't say

8. Did you like to learn about subject Robot.

Yes

Any Remark / Suggestion:

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excellent.

Anekant Education Society's Tuljaram Chaturchand Arts, Science and Commerce College, Baramati Entrepreneurship Development Cell Seminar on Fundamental of Robotics Feedback sheet Date:-22/10/2019 1. Knowledge and information gain from participants at this event is useful. Yes No 2. Today's seminar activity conducted by our department is very thankful and knowledgeable. Yes No 3. Today's speaker is share much more knowledge or information for about basics of robotics. Yes No 4. Can you agree with this seminar content and can you understand overall flow of seminar. Yes No 5. Today's seminar topic is motivated you and give new ideas of fundamental robotics. Yes No 6. Are you interested make carrier in Robotics. Yes No 7. Robot is harmful or useful. Harmful Useful Can't say 8. Did you like to learn about subject Robot. Yes No Any Remark / Suggestion: good presentation

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Yes

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Anekant Eduction Society's Tuljaram Chaturchand College, Baramati Senior College Payment Voucher

Paid to Name :- Mr. Akshay Bhaplegs

Date: 22/10/2019

Address: - Dept. of Mech Eng. N. P. Enginkering College, Baramali

Head of Exps on account of:-

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Office Superitendant

Registrar

Allowed & Pay/ Not Pay

Principal

Signature

Received with thanks from The Principal. Tuljaram Chaturchand College, Baramati



Interaction with students



Interaction with students