	Prabodhan Shikshan Prasarak Sanstha's					
ET ESTO-188	Rajendra Mane College of Engineering & Technology (Recognised by AICTE, New Delhi and affiliated to University of Mumbai) At. &Po. Ambav (Devrukh), Tal- Sangameshwar, Dist- Ratnagiri. (Maharashtra State, India) PIN-415804 Phone- 02354-260992, 261501 Fax. No. 02354-261502 Email-info@rmcet.com, Website- www.rmcet.com					
Title of Course	"HydroPneumatics (Industrial Fluid Power & Projects"					
Resource Person	Mr. Suhas Gadekar, HOD (Mechanical Engineering), Prolific Systems & Technology Pvt. Ltd. Pune					
Course Schedule	04/10/2017 to 07/10/2017 9.30 AM to 04.30 PM (6 Hours/ day)					
Participants	BE Mechanical Engineering students Faculty Members					
Venue	Class room No. 14					
Coordinators	Prof. Rahul Dandage (T&P Cell Coordinator) Ms. Harshali Makade & Mr. Prasad Shinde (Student Coordinators)					

Course Objectives:

- 1) To Create awareness among students about the emerging field of Mechatronics and Automation.
- 2) To equip the students with the knowledge of Industrial Fluid Power.

Expected Course Outcomes:

After successful completion of the course, the participants will be able to:

- 1) Understand the working principle of various components of Industrial Fluid Power systems.
- 2) Understand the practical applications of fluid power systems in industrial automation.
- 3) Develop the fluid power circuits for various industrial applications.

To The Principal, RMCET, Ambay (Devrukh)

Sub: Regarding permission to conduct course from Prolific Systems & Technologies, Pune

Respected Sir,

Department of Mechanical Engineering wish to conduct 4 days certificate training programme on "HydroPneumatics (Industrial Fluid Power and Projects)" in association with Prolific Systems and Technologies Pvt. Ltd., Pune during 04/10/2017 to 07/10/2017 for the students of final year Mechanical Engineering.

As per the MOU signed between RMCET and Prolific Systems and the quotation received, the course fees are Rs. 500 per student. Total 82 students of BE mechanical will be attending this course.

As per the college policy, Rs. 500 per student is borne by college for value added technical courses.

We request you to kindly extend your permission to conduct the course and sanction the payment of Rs. 41000 as training charges after successful completion of the course.

Thanking you.

Prof. Rahul Dandage Course Coordinator Dr. S.N. Waghmare HOD (Mech Engg)

Encl:

1) Quotation by Prolific systems.

ourse Curriculum

101 - Hydraulic systems

- Fundamentals of hydraulics: Basics of water and oil hydraulics
- Hydraulic system accessories: Reservoirs, filters, coolers, Instrumentation and accu
- Principle construction and working of components
- > Hydraulic pumps: Pump basics, centrifugal & positive displacement pumps
- Pressure control: relief, reducing, regulating valves
- > Flow control: FCV, Flow dividers, non-return valves
- Actuators: Linear actuators, hydraulic motors, Hydraulic drives.
- > Direction control valves: Direct operated, pilot operated
- > Hydraulic Circuit reading.
- > Principle of solenoid valves
- > Working principles of proportional valves and servo valves
- Proportional variable pump control system
- > Hydraulic drives & controls

102 - Pneumatic systems

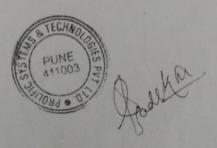
- Theories of compressed air
- Operation & function of air components
- Design & drawing of air symbols
- Simulation of movement phases & function phases
- Drawing air circuits according to standards
- Pneumatic logic
- Dryers, air receivers
- Compressors
- Pneumatic actuators
- Air distribution systems
- Directional valves
- > Flow valves
- Control systems with vacuum component

Memorandum of Understanding (MOU)

This Memorandum of Understanding ("MoU") entered into as of the August 20, 2017 between Prolific System & Technologies Pvt. Ltd. a company organized and existing under the laws of India and having a local business address at 36, Preet Chambers, Opp. Hero Honda Showroom, Mumbai Pune Highway, Wakdewadi, Pune and Rajendra Mane College of Engineering and Technology an institution and existing under the laws of India, and having a college at Taluka Sangameshwar, Dist. Ratnagiri, Ambay, Maharashtra 415804.

- 1. Recognizing the need to cultivate an industry and institution interaction, value addition and perpetual need to keep abreast with latest development in the field of Automation Technology the parties have agreed to enter into a MOU. The purpose of this MOU is to memorialize recent conversations and basic understanding to the parties.
- Prolific shall keep on updating the Rajendra Mane College of Engineering and Technology of students on the latest happenings on the industrial automation sector which include
 - Popular hardware and software worldwide
 - The technological advancement
 - Automation solution providers in India
 - Job prospects for the students
- Prolific shall identify and help student to implement industry level projects. The
 project will involve latest technologies in PLCs, Drives and Electrical and
 Electronics systems. The cost of the project shall be borne by students.
- Prolific shall arrange for the practical workshop on various hardware and software at mutually agreed premises on chargeable basis. Rajendra Mane College of Engineering and Technology students are able to attend this training program. Prolific shall arrange all the hardware and software needed for training. Rajendra Mane College of Engineering and Technology shall arrange for the computer lab and projector. Prolific shall pass on the maximum discount for the college batch and the training fees shall be Rs. 700/-
 - Prolific shall allocate certain seats for Rajendra Mane College of Engineering and Technology for our Three months placement assisted "Post Graduate Diploma in Industrial Automation (PGDIA)" & "Post Graduation Diploma in Advance Mechanical Systems" training program conducted by Prolific. Prolific shall pass on a special 10% discount to Rajendra Mane College of Engineering and Technology students. The student shall bring the recommendation letter from HOD / Principal.





- College will provide the computer lab before two days of training program as per the required software & Configuration, for loading the training software's.
- Rajendra Mane College of Engineering and Technology, Department of Mechanical Engineering students can avail any telephonic help from prolific faculties if they need in their professional life.
- 11. College will deduct TDS as per Government norms and will provide the required certificate to PROLIFIC.
- 12. PROLIFIC will provide certificate to all students as well as faculties those are attended the course, at the end of course.

13. This MOU shall be valid for one (1) year from the effective date and thereafter it may be renewed on mutually agreed terms.

Principal

Rajendra Mane College of Engineering and Technology (Ratnagiri, Ambav)

Suhas S. Gadekar

PUNE 411003

Centre Director/ HoD Mechanical Prolific Systems & Technologies Pvt. Ltd.

RAJENDRA MANE COLLEGE OF ENGINEERING & TECHNOLOGY, AMBAY (DEVRUKII) ACADEMIC YEAR :2617-18

CLASS: B.E. (MECHANICAL)

4 Days Certificate Training Programme on "HydroPneumatics (Industrial Fluid Power)" Resource Person: Mr. Suhas Gadekar, Prolific Systems & Technologies Pvt. Ltd. Pune.

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R.V.Dandage e Co-ordinator

Mr. Suhas Gadekar Resource Person Dr. S.N. Waghmare H.O.D.Mech.Dept

RAJENDRA MANE COLLEGE OF ENGINEERING & TECHNOLOGY, AMBAY (DEVRUKH) ACADEMIC YEAR :2017-18

CLASS: B.E. (MECHANICAL)

4 Days Certificate Training Programme on "HydroPneumatics (Industrial Fluid Power)" Resource Person: Mr. Suhas Gadekar, Prolific Systems & Technologies Pvt. Ltd. Pune.

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RAJENDRA MANE COLLEGE OF ENGINEERING & TECHNOLOGY, AMBAY (DEVRUKH)

ACADEMIC YEAR :2017-18 CLASS : B.E. (MECHANICAL)

4 Days Certificate Training Programme on "HydroPneumatics (Industrial Fluid Power)" Resource Person: Mr. Suhas Gadekar, Prolific Systems & Technologies Pvt. Ltd. Punc.

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Authorized Training Partner













Prof. RAHUL VISHWANATH DANDAGE This is to certify that

Has successfully completed Four Days training program on "Industrial Fluid Power" which covers

- Hydraulic Systems, Functions, Operations, Ckt. Design & Trouble Shootings
- Pneumatics Systems, Functions, Operations, Ckt. Design & Trouble Shootings

Held from 04th to 07th October, 2017 at "Rajendra Mane College of Engineering and Technology", organized by Department of Mechanical Engineering and

Conducted by Prolific Systems and Technologies Pvt. Ltd. Pune.

We appreciate his/her Participation for successful completion of this program.

Rajendra Mane College of Engineering and Technology

Taluka Sangameshwar, Dist. Ratnagiri, Ambav, Maharashtra 415804

Website: www.rmcet.com

PROLIFIC SYSTEMS & TECHNOLOGIES PVT.LTD.

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- Funded by Can Bank, VC Fund, owned by Canara Bank

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Rajendra Mane College of Engineering and Technology, Ambav (Devrukh)



Department of Mechanical Engineering
4 days Certificate course on
"Hydro-Pneumatics (Industrial Fluid Power)"
(4th to 7th October, 2017)

The department of Mechanical Engineering of RMCET organised 4 days Certificate course on "Hydro-Pneumatics (Industrial Fluid Power)" during 4th to 7th October, 2017.

Mr. Suhas Gadekar (Head of Mechanical Department, Prolific Systems and Technologies Pvt. Ltd. Pune) was the Resource Persons for this Training course.



(Course Coordinator Prof. R.V. Dandage felicitating Resource Person Mr. Suhas Gadekar)

The course was conducted at Class room No.14 and was attended by 76 students of BE Mechanical Engineering. Prof. R.V. Dandage coordinated the Course.



(Mr. Suhas Gadekar delivering the session)



(RF Moch students undergoing the course)

The course was covering the important aspects of Industrial Fluid Power systems like:

- 1) Basics of Hydraulic and Pneumatic systems
- 2) Construction, working principle and Function of various fluid power components
- 3) Control valves for controlling Pressure, Flow, Direction etc.
- 4) Logic behind developing fluid power circuits
- 5) Reading fluid power circuits
- 6) Developing fluid power circuits.

The course has been approved under the Government of India's National Skill Development Corporation (NSDC). The course fees for all 76 students have been completely sponsored by RMCET under its mission to impart technical value added skills to the students. The students expressed their complete satisfaction about the course contents and appreciated the expertise and teaching methodology of the resource person. The students thanked RMCET management for organizing and sponsoring this training course.