

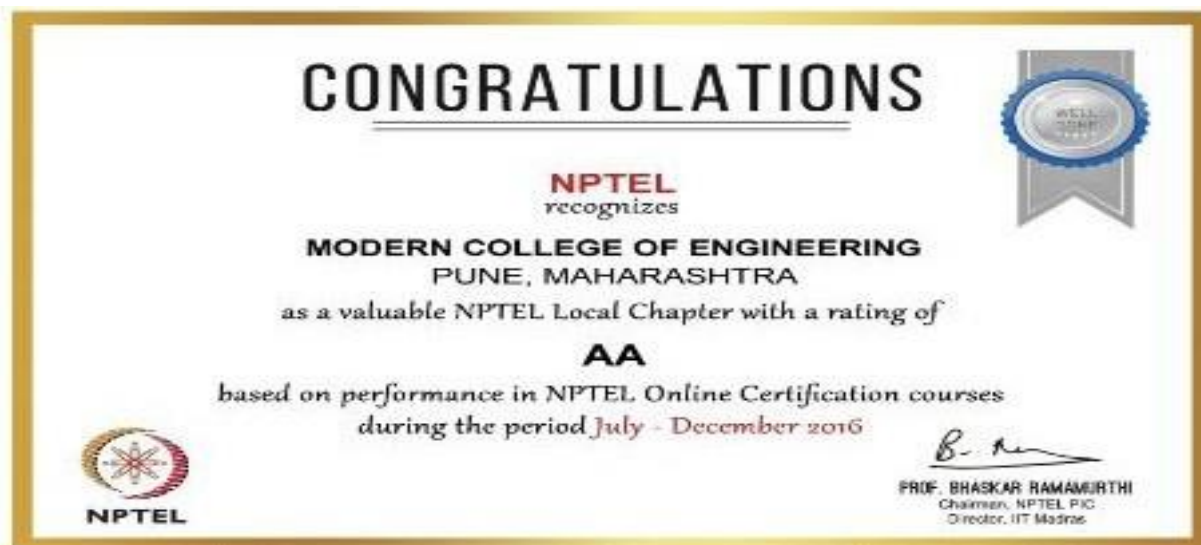


**Progressive Education Society's
Modern College of Engineering,
Pune-5**

Best Practice 1: Innovation and Creativity



The Institute has received four star ratings towards contribution of Innovation cell at PES's MCOE by MHRD's Innovation Cell



PES's MCOE got awarded with AA rating by NPTEL



**Progressive Education Society's
Modern College of Engineering,
Pune-5**



Institute has been awarded with ARIIA (Atal Ranking of Institution on Innovation Achievements), MHRD, Govt. of India, Ranking between 26th to 50th among private / self-finance institutes engaged in Higher Education in year 2019-20



E-Yantra TBT-2016, All India Rank 1



Progressive Education Society's
Modern College of Engineering,
Pune-5



Principal Prof. Dr. Mrs. Kalyani Joshi is awarded with Best Innovative Teacher Award by SSPU Pune



Progressive Education Society's Modern College of Engineering, Pune-5



Achievements by student groups in various technical competitions



This is to certify that paper titled

Supply Chain Management during the Time of Pandemic

Authored by

Shreyas Joshi, Vaishnavi Nair, Manoj Patil, Neha Sharma

Has been awarded 3rd Position in

Track IV – Enabling Technologies & Applications

January 15-17, 2021



Neha Sharma

DR. NEHA SHARMA
Secretary
Society for Data Science

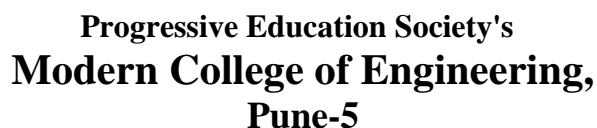
Amlan Chakrabarti

DR. AMLAN CHAKRABARTI
Vice President
Society for Data Science

Amol Goje

DR. AMOL GOJE
President
Society for Data Science

Students received 'Certificate of Excellence' by Data Science for their paper titled "Supply Chain management during the Time of Pandemic"

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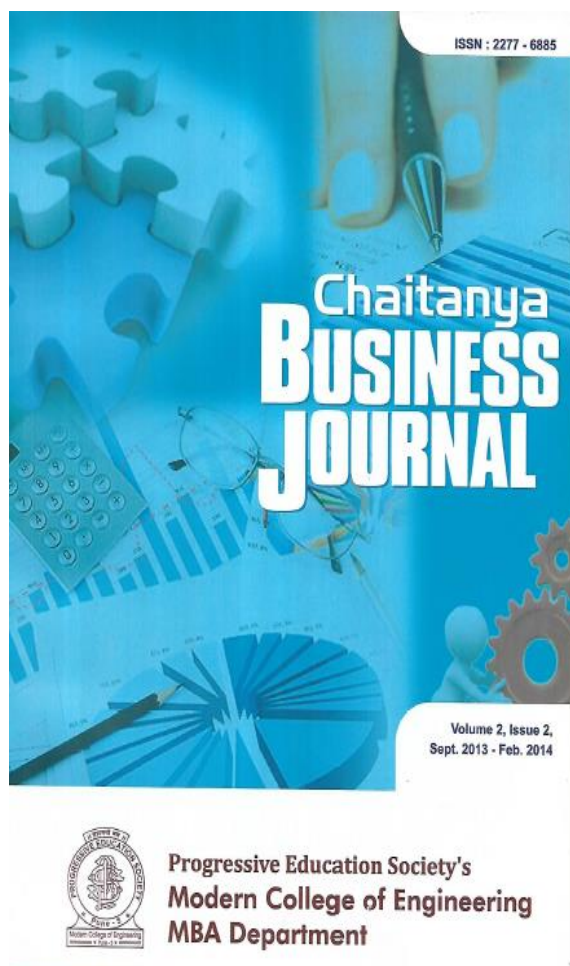
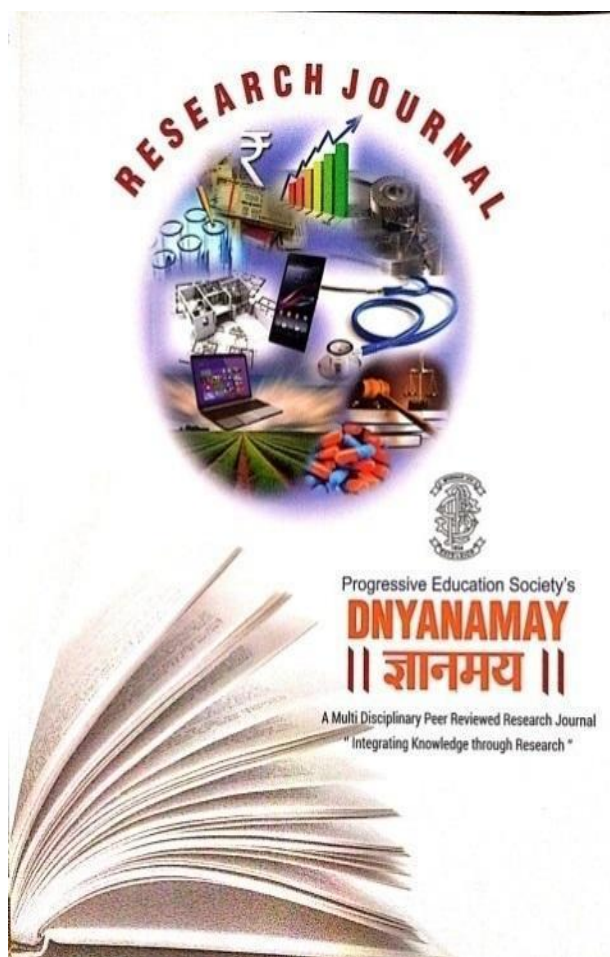
A sample of Copyright registered for a students' project poster



Progressive Education Society's
Modern College of Engineering,
Pune-5

Best Practice 2: Institute's Publications

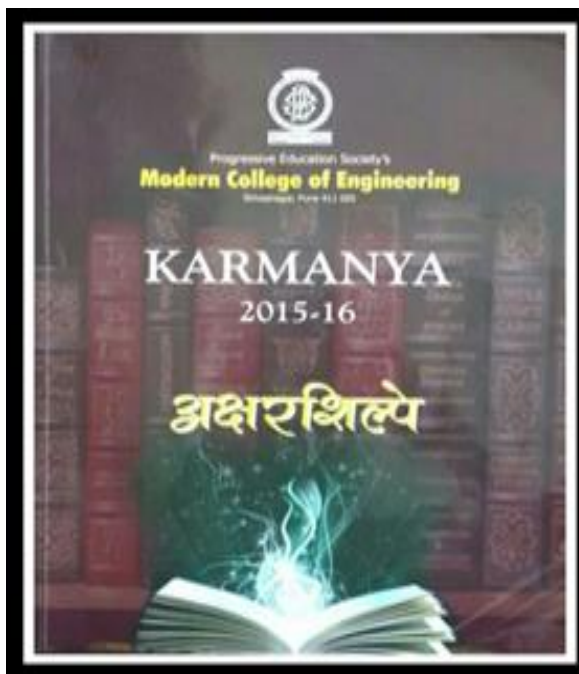
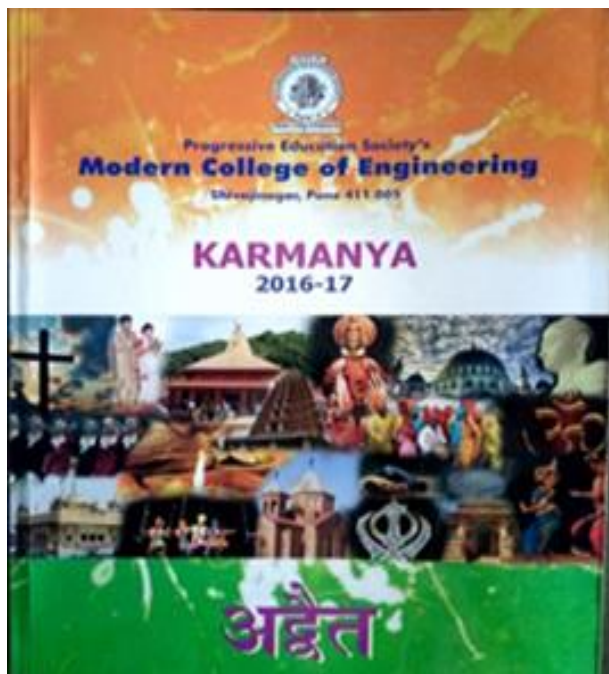
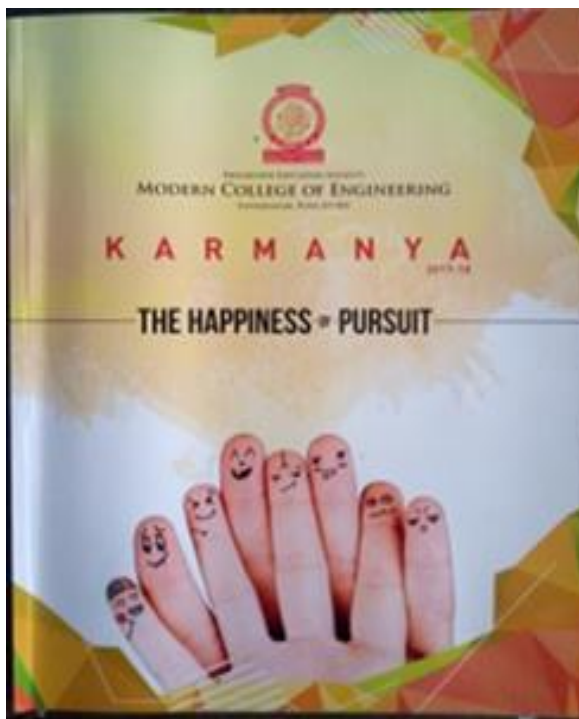
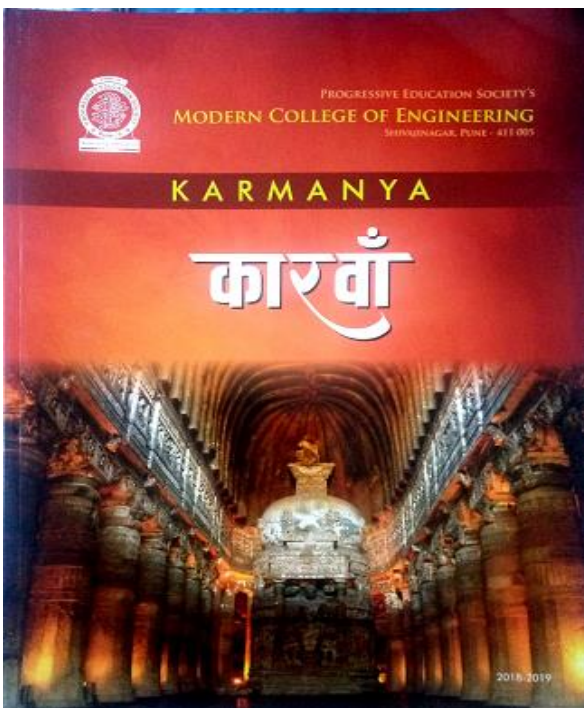
Research Journal:





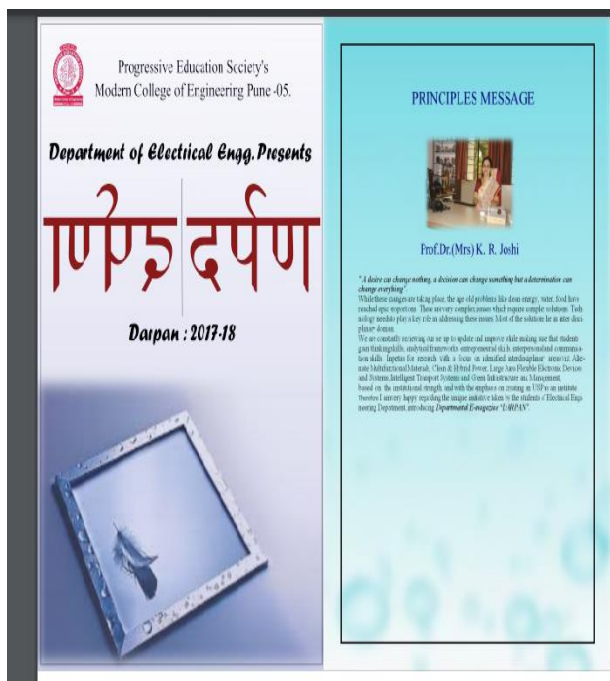
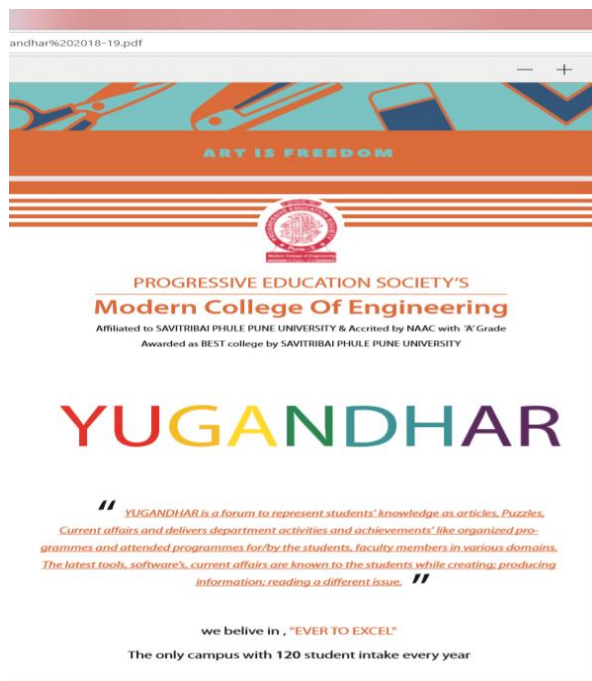
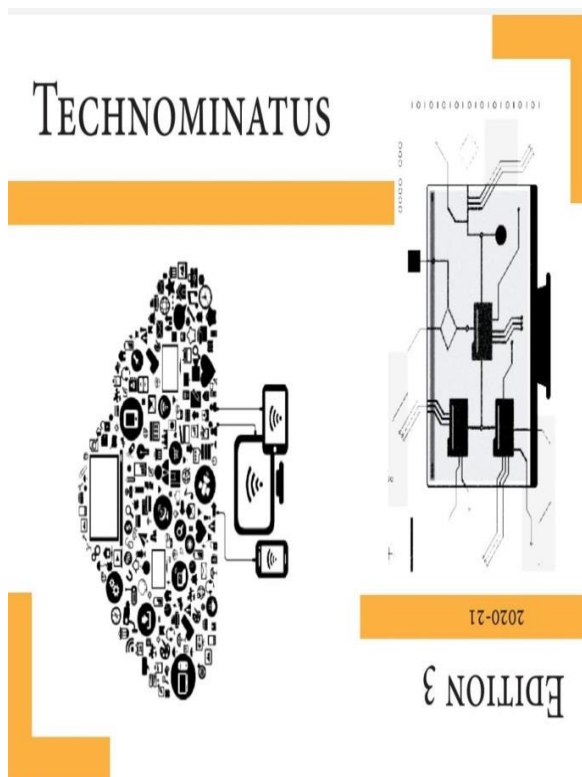
Progressive Education Society's
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Pune-5

Institute Level Magazine:





The image shows the front cover of the 'Electronics Herald' magazine. At the top, a dark purple banner contains the issue information: '3 Entrepreneur Nitin Kulkarni shares his views on the education system' on the left and '12 How we celebrated the Engineers day' on the right. The main title 'ELECTRONICS HERALD' is printed in large, bold, red capital letters. Below the title, the subtitle 'The debacle of Moore's Law' is written in a smaller red font. A central graphic depicts a circuit board with a tree-like structure of lines and dots. To the left of this graphic, under the heading 'Guest Articles by', are the names 'Surhud Khare', 'Jaykumar', and 'Saurabh Joshi'. To the right, under the heading 'Inside', are 'TEESA Activities', 'IEEE', and 'Robocon'. Below the central graphic, under the heading 'Interviews', are the names 'Saurabh Joshi' and 'Nitin Kulkarni'. The date '2014/15' is printed in the top right corner of the main cover area. The background is a light gray with faint, repeating circular patterns.



E-News Letters:



Progressive Education Society's Modern College of Engineering, Pune-5

Industrial Internet of things –

Industrial IoT (IIoT) is the network of intelligent and highly connected industrial components that are deployed to achieve high production rate with reduced operational costs through real-time monitoring, efficient management and controlling of industrial processes, assets and operational time. IIoT is a subset of IoT which requires higher levels of safety, security and reliable communications without the disruption of real-time industrial operations due to mission-critical industrial environments.

How IIoT works: IIoT is a network of intelligent devices connected to form systems that monitor, collect, exchange and analyze data. Each industrial IoT ecosystem consists of: intelligent assets that can sense, communicate and store information about themselves, public and/or private data communications infrastructure, analytics and applications that generate business information from raw data, and people. Benefits of IIoT One of the top ten benefits that industrial Internet of things offers businesses is predictive maintenance. Organizations can use real-time data generated from IIoT systems to predict defects in machinery. Another common benefit is improved field service.

IIoT applications connect devices across multiple verticals, including agriculture, healthcare, manufacturing, consumer and utilities, as well as government and others. IIoT applications, on the other hand, connect machines and devices in such industries as oil and gas, utilities and manufacturing. They follow and detect in IIoT deployment can result in high-risk situations or even life-threatening situations.

Source: <https://www.techopedia.net/https://www.techopedia.net/https://www.techopedia.net/>

Digital Twinning –

Digital twin is a virtual-based virtual model of a process, product or system. Billions of things will be represented by digital twins in the next five years, showing the tremendous potential of this technology.

A digital twin is a digital replica of a living or non-living physical entity. Digital twin refers to a digital replica of physical assets (physical twin), processes, people, places, systems and devices that can be used for various purposes. Digital twin is a real mapping of all components in a product life cycle using physical data, virtual data and interactions between these data. In various industrial sectors, twins are being used to optimize operations and for maintenance of physical assets, systems and manufacturing processes. Digital twins are also called **Cyber Objects or Digital Avatars**.

Digital twin to improve several sectors:

Digital twin technology finds applications in several sectors such as energy and utilities, aerospace and defense, machine manufacturing, automotive transportation, healthcare and consumer goods. On the basis of global market, digital twin technology is segmented into system twin, parts twin, process twin and product twin. Oracle, General Electric, Microsoft, PTC, ANSYS, Siemens, IBM and Dassault Systems are some of the leading players in digital twin sector. **Improving the performance of the IIoT:** As more powerful sensors are added to devices and processes for improved performance, some standard tool is required to analyze the data collected by the IIoT sensors. Digital twin is one way to counter this problem.

Source: <https://electronicsforu.com/>

External Education Objective: The electronics and telecommunication engineering department of P.E.S.'s MCOE will develop graduates who, having diverse skills, will be able to pursue careers as Entrepreneurs, Engineers or Government Section. **EDU-2A** can continue their Education in the same field or diversify to Multi-disciplinary fields to emerge as Managers, Researchers or Teachers.

Department of E & TC, P.E.S.'s MCOE, 15/09/2020 - Issue no. 10/2020

PES's Modern College of Engineering
Edition: Academic Year 2019-20, Sem-II
Department of Electrical Engineering

THE CURRENT POST

About The Institution

PES's Modern College of Engineering was established in June 1999 under the guidance & leadership of visionary Chairman Dr. G.R. Eshwar. The college is approved by AICTE, New Delhi, Directorate of Technical Education, and Government of Maharashtra. It is affiliated to Savitribai Phule Pune University, complying with all the norms & standards of Engineering Education. At present the college conducts five courses in Engineering viz. Mechanical, Electrical, Electronics & Telecommunication, Computer, and Information Technology. The college has Post Graduate Engineering courses in Electrical, Mechanical, Computer, EATC, MBA & MCA. The Research Centre has been established for Mechanical, EATC, Electrical & MBA. The second shift courses have been started for Electrical, Mechanical, Computer, IT & MCA.

Department is accredited by NBA for 3 years.
College has been awarded by NAAC with "A Grade".
College has been awarded as best college in urban area by SFPU.

From Principal's Desk

The aim of this institute is to develop not just top quality engineers but also well-developed persons. Our motto therefore is "the joy of excellence in a world of high technology". As professionals you are required to gain knowledge and use it effectively even when you are exposed to pressure.

My congratulation to our Electrical Engineering Department for their consistent efforts in making newsletter and I wish that they will continue to do this in the years to come.

From HOD's Desk

A weak link is better than a strong memory. Nothing exemplifies it better than the nostalgic feeling one gets when leafing through the dusty old pages of his/her department newsletter. It can make a reader travel down the lanes of memory, giving rise to a surge of emotions of many hues and colours. Department of Electrical Engineering "The Current Post" newsletter is going to give the same pleasure to all the brilliant minds that traverse through the portals of this temple of learning. It brings light to the names of the rising heroes and their mighty deeds.

Vision of Department

"To produce technically competent Electrical Engineers with ethical and social responsibility."

Mission of Department

- To Nurture well cultured and promising professionals by providing facilities to all students for their overall development.
- To Develop abilities in students for acquiring the skills to flourish in technical environment.
- To motivate the students for research work and activities beneficial to society.
- To enhance strong bonding with various organizations and alumni.

IN THIS ISSUE

S.No.	Topic	Page No.
01	Vision/Mission	1
02	Professional Society	2
03	Workshops	3
04	IE Foreword	3
05	Guest Lecture	3.4
06	Industrial Visit	5
07	Academic/Cultural Events	7
08	Technical Awards	6
09	Project Exhibition	6
10	M-Pulse Elects 2020	7
11	Rashmi	8
12	Research Achievements	8
13	Faculty Development Programs	8
14	Social Activity	9
15	Electrical Safety Awareness	9

Vision of the Institution
To create a collaborative academic environment to foster professional excellence and ethical values.

Page 1

**P.E.S. MODERN COLLEGE OF ENGINEERING
DEPT. OF MECHANICAL ENGINEERING**

THE ROYAL MECHANICAL

MAY 2019

VISION

Be a leading centre of education in the field of Mechanical Engineering.

MISSION

- To produce quality Mechanical Engineers.
- To inculcate good moral values in students.
- Prepare students to cater to diverse needs of the industry and society by collaborative efforts.

INSIDE THIS ISSUE

1. CEO's of the Department
2. Glimpse at the Semester
3. Departmental Activities
4. Students Achievements
5. Technical Corner
6. Editorial Section
7. Ignited Mind

"Some goals are so worthy, it's glorious even to fail."
- Capt Manoj Kumar Pandey

**Department of
Computer Engineering**

The Computer Express

2020-2021 Term 2


Vision of the Institution
To create a collaborative academic environment to foster professional excellence and ethical values.



Progressive Education Society's Modern College of Engineering, Pune-5



Progressive Education Society's
Modern College of Engineering
1186/A, Off J.M. Road, Shivajinagar, Pune-05
Academic Year 2020-21 Sem I



DEPARTMENT OF INFORMATION TECHNOLOGY

COGNIZANCE

BEGIN YOUR FUTURE WITH IT

Published On 15th September 2020

VISION

"TO DEVELOP PROFICIENT IT ENGINEERS FOR THE INDUSTRY AND SOCIETY."

MISSION

- TO ACHIEVE ACADEMIC EXCELLENCE.
- TO DEVELOP STUDENTS FOR BEING COMPETENT IN DYNAMIC IT ENVIRONMENT.
- TO ENCOURAGE RESEARCH AND INNOVATION.
- TO INDUCT MORAL AND PROFESSIONAL ETHICS.

THE ESSENCE OF "COGNIZANCE" IS PERCEIVED IN ITS NAME ITSELF WHICH MEANS KNOWLEDGE AND AWARENESS. AT THE DEPARTMENT OF INFORMATION TECHNOLOGY WE STRIVE TO GET INTO A CONTINUOUS EDUCATION PROGRAM. TRUE EDUCATION IS TRAINING OF BOTH THE HEAD AND THE HEART. HERE, THROUGH OUR SENIORS WHO STARTED THIS NEWSLETTER, WE HAVE DEVELOPED AN ENVIRONMENT OF LOOKING AT THE POSITIVES IN ALL SITUATIONS AND FOCUSING ON OUR STRENGTHS. WE ARE FOLLOWING THE PATH THAT OUR SENIORS HAVE DISCOVERED AND TAKEN IT A BIT FURTHER AHEAD THROUGH OUR ASPIRATIONS AND PERSISTENCE. SO LETS ALL

"WITNESS THE FUTURE OF IT."

MESSAGE FROM HOD'S DESK

Dr. Prof. Mrs. S. D. Deshpande

"Engineers are not born, they are made. We are indeed living in information technology (IT) age. Our commitment to the students is that they will definitely honour two words 'INFORMATION' with 'TECHNOLOGY'. Department's primary objective is to ensure good academic environment for all the students. With bright academic students one need with excellence in their professional career. Department is carrying out number of activities which will shape the professional career of the student as technocrat/techno manager. We welcome you to start your department by taking the first step of success."

STAFF IN CHARGE'S VIEW

Ms. Poonam Rakhe

"Persistence and Determination are the keys to success. Persistence is the commitment to finish what you have started, even if it means going an extra mile when the odds are stacked against you. The rate at which we go is irrelevant. In today's era, the changing nature of I.T. industry have made persistence and determination crucial than ever."

STUDENT CO-ORDINATOR'S VIEW

Devika Shendkar, Shantanu Warkari

"We thank the Department of Information Technology on behalf of editorial team for giving us this unprecedented opportunity of working on the newsletter. Our motto for this enthralling opportunity was 'Focus on the Journey, not the Destination'. We hope that this newsletter is as ecstatic to the readers as it was to the editorial team."

Page 1 of 6

e-Newsletter A.Y.2019-20 Sem II

NEWSLETTER 2018-19 TERM I ISSUE I

TECH NEWS

Official Newsletter of the department of MCA
(P.E.S. Modern college of Engineering, Pune)

About Us...

From the Principal's desk: The aim of the institute is to develop not just top quality engineers but also well-developed persons. Our motto therefore is "The joy of excellence in a world of high technology". As professionals you are required to gain knowledge and use it effectively even when you are exposed to pressure. You can surely face the challenges in the world with great courage if you can manage your valuable time and set your priorities, by having healthy competition and team spirit. Working in a team, effectively yields best results, even under tight deadlines. My congratulations to MCA Department for their consistent efforts in making newsletter and I wish that they will continue to do this in the years to come.

From the HOD's desk: It's a great pride to present our Master of Computer Application Department's e-Newsletter "TechNews", our very own newsletter which includes different activities articles and achievements of the MCA students. My congratulations to the team who took the responsibility for carrying out this task effectively.

From the Editor's desk: It gives me an immense pleasure to present our biannual e-newsletter "TechNews" for the current semester. I would like to thank our HOD and my colleagues for their support in making of this issue. We have worked hard to bring up an exhilarating flashback of the events, achievements during the session 2018-19 Term I. I hope you find it interesting.

About The Department: The Department of Master of Computer Application (MCA) has been started in the academic year 2005-06 and is permanently affiliated to Savitribai Phule Pune University and recognized by AICTE and DTE. The mission of the department is to contribute to the growth of technical education and to lead to its enrichment and advancement.

Department Vision: To develop Competent Technocrats in the field of Computer applications inherent with human values.

Department Mission:

1. To impart knowledge in the field of Computer applications with a focus on developing the required competencies.
2. To improve technical skill of the students through practical and hands-on experience.
3. To make students socially responsible citizens.
4. To enhance the quality of the students by collaboration with Alumni and Industry.

This issue:

About Us	PAGE 01
PEO & PO	PAGE 02
Tech News : cyber security	PAGE 03
Departmental Activities	PAGE 04
Student Achievements	PAGE 07
Tech news	PAGE 08

TECH NEWS

PAGE 01



NIVEDANA
management communiqué
2019-20 Volume 5: Issue 2

PES's Modern College of Engineering

VISION

- To create a collaborative academic environment to foster professional excellence and ethical values.

MISSION

- To develop outstanding engineers and professionals with high ethical standards capable of creating and managing global enterprises
- To foster innovation and research by providing a stimulating learning environment
- To ensure equitable development of students of all ability levels and backgrounds.
- To be responsive to changes in technology, socio-economic and environmental conditions
- To foster and maintain mutually beneficial partnerships with alumni and industry

MBA DEPARTMENT

VISION

- Excellence in management education through holistic development

MISSION

- To impart management education through experiential learning opportunities
- To build professional skills and competencies
- To develop ability to understand and analyze multiple dimensions of business.
- To nurture leaders and entrepreneurs who can contribute to business and society
- To collaborate with alumni and industry for holistic development.

FOOD FOR THOUGHT

Positive over Panic

"This too shall pass" the foremost powerful wordings of all time, what has started must end, just be focused on what you can control and let go what you can't. One can remain positive in tough times when one can learn to accept the reality of the situation and should embrace it which he or she is going through.

"Let your faith be bigger than your fears".

- Ms. Mayuri Harwade, FY MBA

Life in Times of Pandemic has choices



What's yours?

In the midst of chaos, there is also opportunity.

Project Annual:



Progressive Education Society's
Modern College of Engineering,
Pune-5

Progressive Education Society's
Modern College of Engineering
**Department of Electronics &
Telecommunication Engineering**



**Project Annual
2020-21**



**Progressive Education Society's
Modern College of Engineering,
Pune-5**

Curriculum Booklet:

