



Shri. Balasaheb Mane shikshan prasarak mandal Ambap's,

ASHOKRAO MANE POLYTECHNIC,

Vathar Tarf Vadgaon, Tal- Hatkanangle, Dist- Kolhapur 416112

DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

NEWSLETTER

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Science, Technology and Society (STS)

ABOUT INSTITUTE

Shri Balasaheb Mane shikshan prasarak mandal Ambap's, Ashokrao Mane polytechnic (AMPV) was established in 2008 and is located near Kolhapur. This institute has AICTE approval for the seven diploma courses. Under the visionary leadership and administration, AMPV has emerged as a leading technological institute and is perfect destination for quality technical education. The institute has NBA accredited programmes, 100% placement in MNCs, best academic results well established labs. The institute has also been honored with notable awards.

VISION

Achieve excellence in quality technical education to create competent technocrats with ethical and social responsibilities for the betterment of society.

MISSION

M1. To provide scholarly and vibrant learning environment that enables students to achieve professional growth.

M2. To impart quality technical education with emerging technology to fulfill industrial requirements.

M3. To develop culture for holistic development of an individual, inculcating social as well as ethical responsibilities.

M4. To strengthen relationship with industries for empowering the students to work in adverse conditions.

INSIGHTS...

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EDITORIAL TEAM

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Mr. N. Y. Patil

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Mrs. N. P. Chougule

Miss. Komal Patel

Miss. Aditi Lohar

ABOUT DEPARTMENT

The department of applied science & humanities is the foundation stone of all diploma courses. It consists of four distinct wings: Physics, Chemistry, Mathematics and English. The department has well - equipped laboratories of Physics, Chemistry and English. The language laboratories made for offering a unique training of soft skills in English is the cheap attraction of not only the department but also of the college. This, being a base department, has highly qualified staff who offer quality education to empower and uplift the message morally, culturally and socially.

MESSAGE FROM THE PRINCIPAL'S DESK



Dr. Y. R. Gurav
Principal
Ashokrao Mane Polytechnic

Dear Readers,

The Department, which has been an integral part of the college ever since its inception offering instruction in Mathematics, Physics and Chemistry to students of the various core branches of engineering, is devoted to foster the understanding of basic scientific principles. The academic programs of this department are designed to meet the requirements of the fast-growing technology. The Department offers several educational programs for undergraduate students.

The overriding objectives of these programs are,

- To build a strong foundation of basic science for engineers and understand science at work.
- To lay strong foundation at the first year stage so that the grasp of engineering streams becomes easily accessible. The clarity of concepts in pure sciences go a long way to help them in engineering streams. To improve communication skills of students as per the industrial needs.
- To understand applications of basic science, so that technology and their advancements can be understood and applied. To build an ability to understand and interpret the impact of engineering solution for society.

MESSAGE FROM THE HOD'S DESK



Mr. N. Y. Patil
HOD
Applied Science &
Humanities

Dear Readers,

The major role of Applied Science & Humanities Department is to build a strong foundation for first year diploma engineering students and enhance their basic knowledge of Engineering. The Department comprises of four wings namely Physics, Chemistry, Mathematics and English Communication Skills. Well experienced and highly qualified faculty members of the department are consistently dedicated towards the progress and development of students and this objective is achieved through continuous improvements in the management practices adopted in teaching and learning processes. The department continuously adopts and implements development, evaluation, and monitoring systems, alongside robust faculty development programs.

INDUCTION PROGRAMM 2025-26



The Department of Applied Science and Humanities of Ashokrao Mane Polytechnic Vathar Tarf Vadgaon has organized “One Week Induction Program ” From 4th to 8th Aug. 2025 for the newly admitted first year diploma engineering students. Entering into college life form school life is one of the most exciting and little challenging event in a life of every student. This Program was inaugurated in the presence of all dignitaries Hon. Principal, Dr. Y. R. Gurav, Academic Coordinator Mr. P. T. Hasbe, Head of Applied Science and Humanities Department Mr. N. Y. Patil and the respected Heads of all departments. Hon. Principal sir guided and felicitated student who obtained above 90% marks in SSC exam 2025. Mr. Ganesh Loage guided students on how to face challenges and failures through his speech “**You Are Born To Win**”. Mr. B. Y. Ghatage introduced Training And Placement, cell Mr. R. D. Nagvekar explained “**Importance of Health, Yoga & Time Management**”. Through his speech quiz and Funfair games arranged.

ENGINNERS DAY



Engineer's Day was celebrated with great enthusiasm at Applied Science & Humanities Department of Ashokrao Mane Polytechnic, Vathar Tarf Vadgaon on 15th Sep. 2025 to commemorate the birth anniversary of Bharat Ratna Sir Mokshagundam Visvesvaraya. Hon. Principal Dr. Y. R. Gurav sir delivered an inspiring speech highlighting the importance of engineering in national development and encouraged students to innovate for societal progress & about emerging technologies. The various events such as the inauguration of First Year Engineering Students Association (FYESA), New Gallery & Tree Plantation .

Parents Meet



From 4th oct. to 7th oct. 2025, Applied Science & Humanities Department hosted a Parents' Meet with the aim of fostering better communication and collaboration between parents and the college community. The event provided a platform for parents to interact with faculty members, administrators, and learn more about their children's academic progress and overall development.

Expert Lecture



On 26th Sep. 2025, Applied Science & Humanities Department had arranged an expert lecture on the subject **Life Skills For Success** for the first year students. The lecture was given by Mrs. Saurabhi Patil, who is life transformation coach, Ichalkarnji. In this lecture students learned the essential knowledge about life skills the foundation of a successful and confident life.

Social Activity

Fire Safety Training



NSS committee of Ashokrao Mane Polytechnic, Vathar had arranged the “Fire Safety Training (Demo on awareness and handling of fire extinguisher)” under the NSS. The event was carried out by the cooperation of the entire NSS committee members, staff and students as per the guidelines in the Maharashtra state board of technical education. The “Fire Safety Training (Demo on awareness and handling of fire extinguisher)” event was inaugurated by Hon. Principal Dr. Y. R. Gurav, all HODs, NSS in charge Mr. V.S. Surve and the departmental coordinators.

Tree Plantation



NSS committee of Ashokrao Mane Polytechnic, Vathar arranged the “Tree Plantation (Vrukshotsav)” under the National Service scheme (NSS) on Wednesday, 19th July 2025 as per the guidelines in circular of Maharashtra State Board of Technical Education (MSBTE), Mumbai.

Diwali Pharal Distribution



Under the NSS on behalf of Shri Balasaheb Mane Shikshan Prasarak Mandal, Ashokrao Mane Polytechnic Vathar, diwali snacks were distributed to nomadic communities and people living a struggling life, sugarcane workers from different districts moving from village to village to earn their livelihood as well as truck drivers from the states of Karnataka, Gujarat, Kerala, Madhya Pradesh, Uttar Pradesh transporting goods from different states who spend several months away from home during the festive season. Hence the NSS department implemented the snack distribution activity with great enthusiasm.

"Eco-Friendly Ganesh Visarjan & Nirmalya Collection Campaign"



The National Service Scheme (NSS) of Ashokrao Mane Polytechnic, Vathar organized an initiative titled "Eco-Friendly Ganesh Visarjan and Nirmalya Collection Campaign" aimed at promoting environmental awareness and sustainability during the Ganesh Chaturthi festival. This activity was led by NSS coordinators and volunteers across various local locations, emphasizing the importance of eco-friendly practices.

Har Ghar Tiranga Abhiyan



"Har Ghar Tiranga Abhiyan" (Campaign) is an initiative under the larger Azadi Ka Amrit Mahotsav, launched by the Government of India to commemorate 75 years of India's independence. The campaign encourages citizens to hoist the national flag (Tiranga) at their homes to celebrate the spirit of patriotism and unity.



Mrs. M. S. Barge
Lecturer
Applied Science & Humanities

Effect of science & technology on society:

Refers to the systematic study of the natural world through observation, experimentation, and reasoning. It involves the development of knowledge about physical, biological, and social phenomena. Refers to the tools, systems, and processes created by humans to solve problems and improve lives. This includes everything from simple tools like the wheel to advanced systems like AI or space exploration technology. Scientific discoveries and technological advancements often lead to significant changes in society. For example, the Industrial Revolution brought about urbanization, changes in labor, and the development of new societal classes.

Economic Development: Technology can boost economic growth through automation, creating new industries and markets. However, it can also disrupt established industries, leading to economic inequality. **Political Influence:** Science and technology can affect politics by shaping policies, influencing government decisions, and even altering the balance of power between nations

Conclusion: The field of Science, Technology, and Society (STS) provides valuable insights into how our technological advancements and scientific discoveries are deeply connected to societal change and transformation. Understanding this relationship can help address the challenges that come with new technologies while ensuring they benefit society in ethical and sustainable ways.



Ms. P. P. Jadhav
Lecturer
Applied Science & Humanities

Science, Technology and Society (STS)

Science, Technology and Society (STS) is a multidisciplinary field that studies how scientific knowledge and technological inventions shape society—and how society, in turn, influences scientific progress. It helps us understand the modern world, its opportunities, and its challenges.

Science: Expanding Human Knowledge

Science explores natural phenomena and helps us understand the universe through observation, experimentation, and evidence.

Technology: Technology is the practical application of scientific knowledge to create tools, machines, and systems that make life easier. Technology changes the way people work, learn, communicate, and live.

Society: The Human Context Society includes people, cultures, traditions, values, and social institutions.

Scientific discoveries and technologies influence society's lifestyle, economic growth, and even moral decisions. At the same time, social needs and problems inspire new scientific research—such as pollution control, disaster management, or digital education.

Conclusion : Science, technology, and society are deeply interconnected. For a better future, we must promote scientific thinking, encourage responsible innovation, and ensure technology is used to improve human life while protecting nature and social values



Miss. Komal Rajanikant Patel
Student, First year
computer Engineering Dept.

Technology and science are activities of central importance in modern life, intimately bound up with industrial society's evolving character, problems, and potentials. If scientific and technological pursuits are to further enhance human well-being, they and their effects on society and the individual must be better understood by non-technical professionals and ordinary citizens as well as by engineers and scientists. Issues of professional ethics and social responsibility confront technical practitioners. At the same time, lawyers, public officials, civil servants, and business people are increasingly called upon to make decisions requiring a basic understanding of science and technology and their ethical, social, and environmental consequences. Ordinary citizens, moreover, are being asked with increasing frequency to pass judgment on controversial matters of public policy related to science and technology. These circumstances require education befitting the complex sociotechnical character of the contemporary era.

Science, Technology, and Society (STS) is an interdisciplinary program devoted to understanding the natures, consequences, and shaping of technological and scientific activities in modern industrial society. Achieving this understanding requires critical analysis of the interplay of science and technology with human values and world views, political and economic forces, and cultural and environmental factors.



Miss. Aditi Vinayak Lohar
Student, First year
Electrical Engineering Dept.

Science Technology & Society.

Science means: Science encompasses the systematic structure and behavior of the physical and natural world through observation and experiment

Technology means : It is the collection of techniques and processes used in the production of goods and services or the accomplishment of objectives such as scientific investigations. And technology is the application of scientific knowledge for practical purposes.

Society means: A society is a group of people who engage in ongoing social interaction or a big social group that shares the same spatial or social region and it's often governed by the same governmental authority and cultural norms

The Relationship between the Science, Technology & Society: Science Technology and Society play an incredibly important role in our everyday lives. Without the advance made in Science, Technology, and Society many our most innovative industries would not be possible. Science drives technologies and scientific inquiry. Science give us insight into what kind of technogies we could potentially create and how to create them while Technology allow us to conduct further scientific research. The three domains are so intimately connected that it is sometimes difficult to pull them apart.

INDUSTRY EXPERT SPEAKS



Mr. Kishor R. Mane
Assistant Production Manager,
Penta Designers & Engineers
Pvt. Ltd. Pune.

Science, technology and society are closely connected and influence one another in many ways. Science helps us discover new knowledge about the world, while technology uses this knowledge to create tools, machines, and solutions that make life easier. These scientific and technological developments shape society by improving communication, healthcare, transportation, and education. At the same time, society influences what kinds of technologies are needed and how they are used. Together, science and technology drive progress, but they also create new challenges—such as ethical questions, environmental impacts, and the need for responsible use. Understanding their relationship helps us make better decisions for the future.

Science, technology and society (STS) is an area of study that explores how scientific discoveries and technological innovations shape human life and how social, cultural, and political factors influence scientific research. Science provides explanations about natural phenomena, while technology applies this scientific knowledge to create devices, systems, and processes that solve real-world problems. These advancements affect society by improving living standards, increasing economic growth, and enabling new forms of communication and transportation. However, they also bring challenges such as environmental pollution, privacy concerns, and unequal access to technology.



Mr. Prakhar Nandi Shrivastava
Founder Director,
AETHRONE AEROSPACE, PUNE



Science can be defined as a process of investigation involving activities or processes known as science skills which include observation, hypothesizing, measuring, experimenting and so on. These activities lead to the production of body of knowledge which are the product of science. This body of knowledge comprises of principles, facts, theories, concepts and laws. Thirdly, science is a human enterprise with a social dimension carried out by a group of practitioners with certain attitudes, values and dispositions that include certain qualities such as honesty, curiosity, humility, objectivity, open-mindedness and so on.

Black and Harrison (1985) defined technology as a disciplined process that uses the resources of matter, energy and natural phenomena to achieve human purpose. It is the practical application of scientific results for the development of tools, equipment and techniques. Thus, SED 413 Science, technology and society Page 13 the invention of the telescope, of techniques of cooking, canning, bottling or preservation, or of medicaments to reduce body pains are seen as technologies. Technology employs knowledge, skills and tools to improve human potentials, to solve practical problems, to modify our environment.

FACULTY ACHIEVEMENT



FY Mechanical Engineering Student Sagar Kamanna secured 3rd Rank in Assembly Champ Competition

STUDENT ACHIEVEMENT'S

CO- CURRICULUM ACTIVITY



FY Mechanical Engineering Student Kunal Patil secured 1st Rank in Assembly Champ Competition



FY Computer Engineering Student Komal Salokhe secured 1st Rank in Poster Presentation Competition



FY Electronics & Computer Engineering Student Aryan Mane secured 2st Rank in Assembly Champ Competition



FY AIML Engineering Student Sharayu Sawant secured 3rd Rank in Poster presentation Competition

ACADEMIC TOPPERS SUMMER 2025-26 EXAM

Computer Engineering



**Kamble
Prajwali
90.06%**



**Dixit
Sakshi
89.88%**



**Patil
Darshani
88.94%**

Mechanical Engineering



**Patil
Sharyu
87.67 %**



**Sutar
Najiya
79.68%**



**Mane
Gaurav
78.72%**

Electronics and Computer Engineering



**Kumbhar
Anushka
91.73%**



**Dalavi
Shubham
87.39%**



**Devkule
Chaitrali
84.97%**

Electrical Engineering



**Chougule
Prajakta
92.83%**



**Khot
Soniya
89.36%**



**Khutale
Samrudhi
79.47%**

Civil Engineering



**Powar
Suhass
75.27%**



**Bhopale
Riya
73.93%**



**Patil
Shubham
71.05%**

Automobile Engineering



**More
Shreevaradhan
77.14%**



**salkar
kartik
74.03%**



**Jamadar
Aarju
77.41%**

Artificial Intelligence & Machine Learning



**Sutar
Mayuri
88.47%**



**Patel
Junaid
88.24%**



**Powar
Viraj
86.47%**



Success Stories



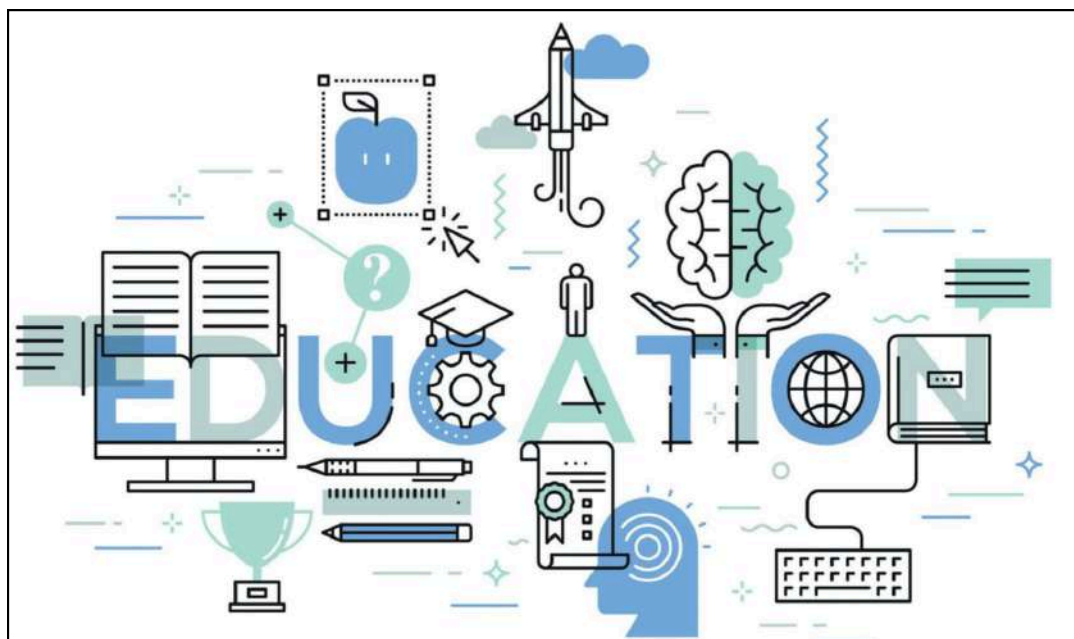
Neha Deshpande
Alumni 2018-19

I am Neha Deshpande, alumni of Ashokrao Mane Polytechnic 2019 Batch. Earlier I was not convinced to take admission to Diploma but when I entered the institute I could see the energy of students which were along with me doing a tough competition. I stood 1st in 1st sem across institute and then I got confidence that I could do better. We were a group of 15+ students who used to study, hangout and share knowledge and thoughts together. Not only I was good at academics but also I participated in various competitions such as Paper Presentation, Project Presentation, etc.

Not only I was good at academics but also I participated in various competitions such as Paper Presentation, Project Presentation, etc. Our team secured 1st rank in MSBTE paper presentation competition for the first time in the institute. Due to these I was able to perform well during my campus placement. Currently I'm working as a Mechanical Engineer in SLB. Many thanks to the institute for making us better citizen and providing tons of memories with best people.

THEME FOR NEXT ISSUE

Teaching & Learning in the 21st century.



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What is STS?

Science and Technology Studies (STS) is a relatively new academic field. Its roots lie in the interwar period and continue into the start of the Cold War, when historians and sociologists of science, and scientists themselves, became interested in the relationship between scientific knowledge, technological systems, and society. The best-known product of this interest was Thomas Kuhn's classic 1962 study, *The Structure of Scientific Revolutions*. This influential work helped crystallize a new approach to historical and social studies of science, in which scientific facts were seen as products of scientists' socially conditioned investigations rather than as objective representations of nature. Among the many ramifications of Kuhn's work was a systematic effort by social scientists to probe how scientific discovery and its technological applications link up with other social developments, in law, politics, public policy, ethics, and culture.

STS, as practiced in academia today, merges two broad streams of scholarship. The first consists of research on the nature and practices of science and technology (S&T). Studies in this genre approach S&T as social institutions possessing distinctive structures, commitments, practices, and discourses that vary across cultures and change over time. This line of work addresses questions like the following: is there a scientific method; what makes scientific facts credible; how do new disciplines emerge; and how does science relate to religion? The second stream concerns itself more with the impacts and control of science and technology, with particular focus on the risks, benefits and opportunities that S&T may pose to peace, security, community, democracy, environmental sustainability, and human values.

Driving this body of research are questions like the following: how should states set priorities for research funding; who should participate, and how, in technological decision-making; should life forms be patented; how should societies measure risks and set safety standards; and how should experts communicate the reasons for their judgments to the public?

The rise of STS as a teaching field reflects a dawning recognition that specialization in today's research universities does not fully prepare future citizens to respond knowledgeably and reflectively to the most important challenges of the contemporary world. Increasingly, the dilemmas that confront people, whether in government, industry, politics or daily life, cut across the conventional lines of academic training and thought. STS seeks to overcome the divisions, particularly between the two cultures of humanities (interpretive inquiry) and natural sciences (rational analysis).

STS teaching seeks to promote cross-disciplinary integration, civic engagement, and critical thinking. Undergraduate STS courses are especially popular with engineering and pre-professional students, including premeds. They help to illuminate issues of professional responsibility and ethics. Such courses also build bridges between disciplines that do not ordinarily meet each other in the undergraduate curriculum, such as sociology and science, law and science, anthropology and technology, environmental science and political theory, or technology and philosophy. Graduate STS courses offer ways of integrating knowledge in areas that are impossible to grasp through any single discipline; examples include security studies, environmental studies, globalization, the human sciences, and biology & society.