



ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY'S

# POLYTECHNIC



Recognized by A.I.C.T.E. New Delhi and Govt. Of Maharashtra.

Affiliated to Maharashtra State Board of Technical Education (MSBTE), Mumbai.

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## Information Brochure



## SOCIETY AT A GLANCE

### All India Shri Shivaji Memorial Society, Pune - 5

To promote the noble cause of education, All India Shri Shivaji Memorial Society (AISSMS) was established in 1917 by Rajarshi Chhatrapati Shahu Maharaj of Kolhapur and H.H. Shri Madhavrao Scindia, Maharaj of Gwalior. The foundation stone of the All India Shri Shivaji Memorial was laid at the hands of His Royal Highness, the Prince of Wales, on 19<sup>th</sup> November 1921.



Rajarshi Chhatrapati  
Shahu Maharaj of Kolhapur



His Highness Shri  
Madhavrao Scindia Maharaj of Gwalior



His Highness Shri Tukojirao Maharaj  
of Indore

Considering the constant need of human resources of Pune metropolitan area covering over 1500 industrial houses including giants like Telco, Bajaj, Kinetic, Thermax, Kirloskar, Kalyani Forge, Infotech, Infosys conducting International trade, The AISSMS is able to pursue its mission of providing comprehensive educational opportunities to the students in various disciplines such as military, general, technical, business and hospitality management, pharmacy, etc. With an enrollment of about undergraduate students, AISSMS prides itself on paying specialized attention to each student. Our location, in the heart of the city of pune, enhances the traditional classroom experience to the students by providing them greater resources, contacts with business and academic authorities, employment possibilities.

# AISSM SOCIETY'S POLYTECHNIC, PUNE - 1



## OUR VISION

*To be pioneer in creating leaders and innovators with academic excellence, creativity and cultural environment to address evolving global needs.*

## OUR MISSION

*To empower the students with knowledge to contribute to the technological, social and economical development of the society.*

## OUR GOALS

*In accordance with the vision and mission, AISSM Society's Polytechnic aims-*

- To provide state of art infrastructure along with updated educational programmes in an intellectually challenging environment.
- To provide quality improvement programme for faculty.
- To enhance our position in research and teaching by affiliating to various academic institutions and industries.
- To make significant contribution to cater to the social needs by providing culturally and ethically motivated individuals.



**OFFICE BEARERS OF  
ALL INDIA SHRI SHIVAJI MEMORIAL SOCIETY, PUNE - 5**



**Shri Shahu Chhatrapati, Kolhapur  
President**



**Shri Sambhajiraje Chhatrapati, Kolhapur  
Vice-President**



**Shri Malojiraje Chhatrapati  
Honorary Secretary**



**Shri Ajay Uttamrao Patil  
Treasurer**



**Shri V. B. Patil  
Chairman, Governing Council**



**Shri Suresh Pratap Shinde  
Honorary Joint Secretary**



**Shri Sahebrao R. Jadhav  
Chairman, Managing Committee**



## ***Message***

I am happy to see the new updated version of the Information Brochure of our Polytechnic. The Brochure aptly illustrates the salient aspects of the development in infrastructure, teaching and learning, academic and curricular activities and the current achievements by the Polytechnic.

I congratulate the Principal and his staff for maintaining the high pace of growth, which is evident from the M.S.B.T.E. results and almost cent percent admissions in Engineering Courses.

I am happy to note that the staff & employees are putting their efforts into making the Rajarshi Chhatrapati Shahu Maharaj's dream of promoting education to all strata of the society come true.

My best wishes to all the Students and the parents.

**Shahu Chhatrapati, Kolhapur**

President

All India Shri Shivaji Memorial Society, Pune-5



## *Message*

All India Shri Shivaji Memorial Society was established by Rajarshi Chhatrapati Shahu Maharaj in 1917 to promote education among all strata of the society, irrespective of caste and creed.

Today at AISSMS, we continue the colossal task of social reform through education initiated by him. Our students' community extends beyond the campus with sizable alumni around the globe. AISSMS sees education as a means to foster the individuals, societies and humanities for future development and prosperity. Education provides a firm foundation for the achievement of personal fulfillment. At AISSMS, we strive to groom students to be the leaders of the society, industry and the nation at large.

The AISSM Society's Polytechnic, established in 1994, has achieved the zenith of success which is built on the strong foundations of discipline, integrity and commitment to delivering quality education to its students. The Institute has consistently produced diploma holders of repute who have achieved glory to this noble task either through employment with reputed companies or through their own business ventures. We have left no stone unturned to give the best in terms of faculty & infrastructure. We have also adopted and implemented technical innovations to inculcate research temperament in the students. The result of the students speak about the quality of education given to the students.

I welcome all the students joining us at AISSM Society's Polytechnic to become a part of our fraternity and promise them a rewarding experience which they will cherish for the rest of their lives.

**Malojiraje Chhatrapati**

Honorary Secretary

All India Shri Shivaji Memorial Society, Pune-5



## ***Message from the Principal***

It gives me immense pleasure to invite aspiring students who are keen to make a best career in technical field as a good technocrat. The diploma holders play very important role in industrial and economic developments of the country. They develop and master specialised skill in the chosen areas and provide much needed supports in any engineering establishments. Also the students having diploma in engineering provides support services in various other sectors of economy, including service sector.

AISSM Society's Polytechnic is among the top reputed technical institutes imparting high quality technical education. The evolution of the institute over the past two and half decades has witnessed strong blend of state-of-the-art infrastructure and intricately intertwined human resource committed to providing professional education with trust on creativity and innovation. Here at AISSM Society's Polytechnic, we are imparting skills and knowledge to our students in the best possible manner to make them dream about big and fulfill the same. It is rightly said that a dream becomes a goal when the action is taken towards its fulfillment, and we are committed to providing optimistic, independent, compassionate, life-long learners and leaders who will bring glory to the institute, state and the nation.

We at AISSM Society's Polytechnic take every care to fulfill the hopes and aspirations of all students by providing them the best physical and academic infrastructure needed to make them competent technical professionals. Our outstanding faculty adds value to our best endeavor to provide technical knowledge to our students in the interest of all the stakeholders in the country. I take this opportunity to acknowledge the extreme hard work put in by our dedicated staff, by working round-the-clock to keep our college at the zenith of success.

I Welcome you all to join our institute and make a best career in life.

“The tradition of excellence is ours, the choice is yours.”

**S. K. GIRAM**  
Principal



## AISSMS'S POLYTECHNIC, PUNE

All India Shri Shivaji Memorial Society's Polytechnic was established in the July 1994 under the coeducation system. The college is affiliated to Maharashtra State Board of Technical Education, Mumbai and approved by AICTE, New Delhi as well as Government of Maharashtra. At present, the Following courses are conducted in the Institute.



SR NO.	COURSES	INTAKE I -SHIFT	INTAKE II -SHIFT
1	Civil Engineering	120	–
2	Computer Engineering	60	60
3	Electronics & Telecommunication Engineering	60	–
4	Information Technology	60	–
5	Instrumentation Engineering	30	–
6	Mechanical Engineering	120	60
7	Automobile Engineering	30	–
	<b>TOTAL INTAKE</b>	<b>480</b>	<b>120</b>



## ABOUT THE INSTITUTE



## SALIENT FEATURES

1. All India Shri Shivaji Memorial Society's Polytechnic is recognized by All India Council for Technical Education (AICTE), New Delhi and Government of Maharashtra.
2. All India Shri Shivaji Memorial Society's Polytechnic is affiliated to Maharashtra State Board of Technical Education (MSBTE) Mumbai.
3. Centrally located.
4. Experienced and well qualified staff as per AICTE norms.
5. Well equipped laboratories and Workshop.
6. Library enriched with latest information and book bank scheme for Reserved category students.
7. An outstanding tradition of excellent results.
8. Progress of the students is regularly communicated to their parents.
9. Every batch of 20 students has a tutor appointed to solve their problems and to counsel them acquiring various skills.
10. Championships in different sports at State Level.
11. Effective Training & Placement cell.
12. Government Scholarship facility.
13. Our Institute strongly believes in overall development of student. Our aim is not to produce Engineers but "An Engineer in Totality". To maintain this hierarchy, we have inculcated novel programmes and structured exercise, which are instrumental in shaping the students overall personality.

14. Industrial visits are arranged for each class and for every course.
15. Guest Lectures / Speeches are arranged by experts and prominent personalities in technology /management / social science.
16. Institute tries its best to sponsor the projects to some deserving candidates in the final year.
17. Continuous staff development is done by deputing teachers for training programmers through which they acquire innovative and effective teaching skills.
18. Various activities like Quiz, Rangoli, Drawing competition, Art Exhibitions etc. are arranged to provide a platform for the students' creative and social skills.
19. Various activities like State Level Technical Paper Presentations, Quiz contests, seminars, etc. are arranged for each year by these associations.
20. Special extra lectures are arranged for weak students.

## OUR PRIDE

1. More than 90% result every year since 1995 for each course.
2. More than 75% students score First Class.
3. First Prize in "State level technical paper presentation" since 3 years.
4. Our students participate in DIPEX every year & win the Prizes.
5. Many students are placed in well-known organizations as Tata Motors - Pune, Electronica Machine Tools-Pune, John Deere-Pune, Bharat Forge-Pune, Sulzer India-Pune, Cummins India-Pune, TataHoney Well-Pune, L & T Powai, Kalpataru Power-Mumbai, Mahindra Engineer-Pune, Tractors India-Pune, Bajaj Electrical-pune, Taegutec(l) Ltd-Banglore, India Com Ltd-Pune, ConvexAvio-auto Ltd- Pune etc.
6. Many students got admission directly to Second year Degree course in prestigious Institutes.
7. Championship in Hockey, Football and Athletics since last four years at zonal / State level.

## FACULTY

The faculty of institute, consist of full time regular staff members, is well known for its expertise and professional competence. Besides, the institute has taken the support and co-operation of professionally qualified and eminent business executives, Management Consultants, Practicing Managers and Engineers. The Polytechnic has good liaison with the leading industries in Pune.

## GYMKHANA

The gymkhana provides a platform to students to explore their potential in extra & co-curricular activities in several areas like cultural, sports etc. It is well supported by modern sports kits & musical instruments. It has an open air theatre and two big play grounds. Gymkhana organizes inter departmental sports events, I.E.D.S.S.A competitions. Gymkhana also motivates and supports the students to participate in sports and cultural activities of high reputation outside the college.



The Secretary of the AISSM Society  
Shri Malojiraje taking the introduction of the  
Polytechnic Football Team.



The Principal AISSM's Polytechnic Congratulating  
the members of the winning team.



The Basketball team of the Polytechnic celebrating  
after winning the competition.



The Cricket team of AISSM's Polytechnic posing  
before the match.



The Students of Polytechnic practicing at basketball  
ground on the campus



# ADMISSION PROCEDURE

Eligible candidates should apply in the prescribed format.

## QUALIFYING EXAMINATION & ELIGIBILITY :

(As under, Subject to change from time to time as per Government Orders)

### RULE-1

Candidates will be eligible for admission subject to compliance of all the following conditions :

The Candidates must have passed SSC Examination (10th std.) of Maharashtra State Board of Secondary & Higher Secondary Education approved by Govt. of Maharashtra, Mumbai.

Or

CBSE/ ICSE Examination approved by Govt. of India.

Or

Any other equivalent examination with and in

- 1) General Science or Physics & Chemistry
- 2) Mathematics or Algebra & Geometry, English.

### RULE-2

The following categories shall also be eligible for admission if they have passed Std. VIII/IX/X examination from a recognized school outside Maharashtra State provided -

- I. Father/ Mother of the candidate is domiciled in the State of Maharashtra.
- II. Father / Mother of the candidate is a Central Govt. / Govt. of India undertaking employee who is posted in Maharashtra and reported for duty before the last date for submitting of application form.
- III. Father / Mother of the candidate is Maharashtra State Govt. / Maharashtra State Govt. Undertaking employee who is transferred from other State to Maharashtra or returned from deputation to other State back to Maharashtra and reported for duty in Maharashtra before the last date for submitting application form.

### RULE - 3 - RESERVATION OF SEATS

Reservation of seats will be as per Govt. Rules

### Admission to Direct Second Year

The candidates passing HSC Examination (12th Std.) in Science, Vocational subjects (A2 - Mechanical Maintenance, A3-Scooter & motorcycle servicing, A4 - General Civil Engg, C2 - Electronics, D9 - Computer Science); NCTVT/ITI pass and XIIMCVC pass are eligible for admission to direct second year.

## FEE STRUCTURE

### 1. For Open Category candidates :

The interim fee structure for unaided private institutes shall be as approved by the Fee Regulating Authority under the Act. The final fee approved and published by the Fee Regulating Authority for that year shall be the fee payable by the candidate for that course for that academic year.

### 2. Concession in Fees for Backward Class Category Candidates (belonging to Maharashtra State only):

For SC/ST/VJ DT NT(A)/NT(B)/NT(C)/NT(D)/SBC /OBC category candidates:

The scheme/mode of concessions, scheme of loan scholarship (if any) in tuition & other fees for eligible candidates, will be announced by the Central /State Government. These candidates will get only that amount of waiver as notified in the circulars issued by the Government Department from time to time, subject to fulfillment of various norms and conditions laid down by these Departments.

Candidates claiming fee concessions under various categories shall produce the requisite certificates as may be specified by the respective Government Departments.

If the concerned Social Justice/Tribal welfare authority denies the claim or backward class category candidate fails to substantiate claim for fees reimbursement with documents in respect of his/her category, then it will be the responsibility of the candidate to pay the prescribed fees to the admitted Institute.

If candidate seeks admission to Post SSC Diploma Course after his/her XIth and/or XIIth standard Pass/Fail and availed the fee concessions shall pay full tuition, development & other fees for equivalent number of years.

#### Note :

1. Certificate of caste and validity issued by the Magistrate or equivalent authority as prescribed by Govt. must be submitted by B.C. candidates.
2. Candidates claiming for fee concession under OBC, SBC, VJ/ DT(A), NT-B, NT-C and NT-D category shall produce Valid Non-Creamy layer certificate
3. Copies of certificate attached to the application form should be attested by the principal of school/institute or a Gazatted Officer or Special Executive Officer. **Original Certificates will have to be produced at the time of admission.**

### 3. Caution Money Deposits :

Caution money deposits received from the students shall be refunded after successful completion of the course or after cancelling the admission. Unless there is any recovery, no deduction shall be made from the caution money deposit.



However, the amount of caution money deposit shall be transferred to Students Aid Fund in case of Un-Aided colleges and credited to Government in case of Government and Non Government-Aided Colleges, if candidate does not apply for refund, as given below.

a. Within 3 complete financial years after the student actually leaves the institution;

**OR**

b. Within 3 complete financial years after the date of successful completion of the course, whichever is earlier

### **SPECIAL INSTRUCTION TO PARENTS**

All the parents are hereby informed to remain in touch with the institute and DTE website regarding the round of admission. Also they must see the college notice boards for the dates of admission rounds, from time to time. Parents will not be informed separately. No complaint should be raised by the parents, at the later stage in this regard. Parents must sign the attendance register while attending the rounds of admissions.

### **MEDIUM OF INSTRUCTION**

The medium of instruction and examination is English.

### **CONDUCT AND DISCIPLINE**

1. Student studying in the Institute, if found indulging in antinational activities contrary to the Provision of Acts & Laws enforced by Govt, will be expelled from the Institute without any notice by the Principal of the Institute.
2. Candidate, applying for admission against the seats reserved for backward class, should note that only those candidates who actually belong to the castes and communities will be eligible for the admission.
3. If any of the statements made in the application form or any information supplied by the candidate in connection with his/her admission is at any time found to be false or incorrect, such candidate will not be considered for admission and if already admitted, his/her admission will be cancelled, fees forfeited and he/she may be prosecuted by Govt. if necessary. An appeal against the order of expulsion however may be preferred within eight days from the date of expulsion to the Director of Technical Education whose decision in such cases will be final and binding.
4. The candidate shall be governed by general rules and also disciplinary rules prescribed by the Institute for students.
5. FIR will be charged against the students involved in ragging. Students will be given adverse remarks in their leaving certificates for any kind of ragging / aggressive behavior in college campus.

## EXAMINATION BODY

Maharashtra State Board of Technical Education, (MSBTE), Mumbai.

## GENERAL RULES FOR STUDENTS

1. Students should be regular and punctual in attending classes, tutorials and submissions of the term-work in various subjects. Terms shall not be granted and a student shall not be certified for examination if his progress, conduct and attendance is not satisfactory.
2. Students, if found indulging in antinational activities contrary to the provisions of the Acts & Laws enforced by the government will be liable to be expelled from the college without any notice by the Principal of the College.
3. Ragging of the students in any form within or outside the college is strictly prohibited. Defaulters will be strictly dealt with as per Government instructions in this matter.
4. Smoking, Drinking (Alcohol) and use of Drugs and Chewing of tobacco & Gutkha is strictly prohibited in the premises of the College.
5. Bicycle, Scooters & Vehicles should be parked in areas provided for the purpose. The Institute accepts no responsibility for their safe custody. Vehicles parked elsewhere may be confiscated.
6. Any changes in the address of the students must be intimated by him/her in writing to the college office immediately.
7. A student must carry identity card signed by the Principal & produced the same whenever asked by the college authority. Without identity card, students will not be allowed to enter the college premises and will be strictly dealt with.
8. A student is expected to read the notice put up on the notice board of the Institute. The Institute accepts no responsibility for loss of any advantage by student due to his failure to read the notice in time.
9. In case a student requires remaining absent for some reasons, he will be required to take the prior permission of the Principal.
10. If any statement made in application form or any information supplied by the student in connection with his/her admission is later on / at any time found to be false or incorrect, his/her admission will be cancelled, fees forfeited and he/she be expelled from the Institute by Principal and prosecuted by Govt. if deemed necessary.

11. A student shall not go to the press or any publicity media without permission of the principal.
12. Compensation of any damage to the Institute property apparatus, furniture, equipment, library books, building etc. must be paid immediately by the students.
13. A student must attend social and National events organized by the college such as 26th January, and 15th August, and all other declared national celebrations.
14. A student will be bound by the rules and regulations formed by the Institute from time to time.
15. No student will be allowed to appear for the MSBTE Examination unless he/she pays all his/her dues and completes his/her term-work in time. The attendance at Theory & Practical's must be more than 75%.
16. Students should not keep mobile phone/valuables along with them at the time of M.S.B.T.E. examinations as well as during their regular lectures and practical's. The Institute will not remain responsible for the mobile phones/valuables of the students.
17. Students will be informed about the uniform after the commencement of academics activities.



# DEPARTMENT OF MECHANICAL ENGINEERING [INTAKE-120 + 60]



We started our journey in the year 1994.

Mechanical engineering is one of the broadest and oldest branches of engineering. It is also referred as the mother branch of engineering. Mechanical engineering plays a dominant role in enhancing safety, economic vitality, enjoyment and overall quality of life.

## KEY ASPECTS:

- Mechanical Engineers have good graduate prospects.
- Mechanical Engineers enjoy great starting salaries.
- Mechanical Engineers are multi-skilled.
- Mechanical Engineers have Global opportunities.
- Mechanical Engineers are at the forefront of future technologies.

## DEPARTMENT'S ROLE:

- Our research-active faculty members take a real interest in providing the best education possible and getting to interact with every individual student.
- Department is organizing workshops, IN-Plant training, industrial visits, Faculty Development Programs etc.
- Department is excited to develop versatile personalities by providing facets beyond books. Students are participating in cultural, State and National level sports, environmental and social activities.
- The department presently has highly qualified and experienced staff on its role.
- The department has well equipped laboratories for the following subjects :
  - ❖ Refrigeration & Air-conditioning
  - ❖ Automobile Engineering
  - ❖ Metrology & Quality control
  - ❖ Electrical Engineering
  - ❖ Theory of Machines
  - ❖ CAD / CAM & Automation
  - ❖ Mechanical Measurement & Control
  - ❖ Fluid Mechanics
  - ❖ Thermal Engineering
  - ❖ Workshop



**CNC LAB**



**INDUSTRIAL  
FLUID LAB**



**POWER  
ENGINEERING LAB**







**THERMAL  
ENGINEERING LAB**



**WORKSHOP**

### **CARRIER FORECASTS :**

- ✓ Industrial sectors in which mechanical engineers have traditionally made substantial contributions include aerospace, automotive, chemical, computer and electronics, construction, consumer products, energy, engineering consulting, Agricultural Mechanization, Air Conditioning and Refrigeration, Spacecraft, Household Appliances, Nuclear Technologies, High-performance Materials, transport, healthcare, robotics and government etc.
- ✓ In addition, the medical and pharmaceutical industries present exciting opportunities for mechanical engineers to join forces with the life sciences.
- ✓ Even the entertainment industry relies heavily on mechanical engineers for special effects and amusement park equipment.

# DEPARTMENT OF AUTOMOBILE ENGINEERING [INTAKE - 30]



**Automobile Engineering :** This sub branch of Mechanical Engineering deals with automobile sector which manufactures two/three/four wheelers & commercial vehicles. Automobile engineer possesses typical and enhanced knowledge related with engines, fuel systems, and chassis. He also has mechanical background with parameters like production, design, quality control & management science. He develops skill in testing of engines, difference in diesel & petrol engines. He also possesses knowledge about pollution control, maintenance of vehicles, and repair of engine assembly etc. The variety of different vehicles with modern technology such as vehicles on CNG, electric vehicles, hybrid cars is prominent one.

## **Automobile Engineering industry : A growing sector in India**

The Indian automobile industry is one of the fastest growing industries under the ambit of Indian economy. According to Society of Indian Automobile Manufacturer (SIAM 2015), India is the seventh largest producer in the world with an average annual production of 17.5 million vehicles. The country is also the fourth largest automotive market by volume. Automobile sector contributes 7% of the country's GDP by volume. The industry is growing and evolving at a brisk pace. As per industry estimates, the sector is expected to sell 6 million plus vehicles by 2020.

The government is also coming up with Automotive Mission Plan-2 which aims making India a global leader in two and four wheeler segment by 2020. Also the "Make in India" campaign brings a high level of confidence among the domestic as well as global investors in this vibrant sector.

Fast facts about Indian Automobile Industry:

- ❖ 7th largest automobile producer in the world
- ❖ Production of 17.5 million vehicles annually
- ❖ 4th largest automotive market by volume
- ❖ 14.89 percent growth rate in exports.
- ❖ New Automotive Mission Plan-2(2016-26)
- ❖ 'Make in India campaign' – focusing on building India a 'manufacturing hub'

Thus, there are a lot of opportunities for the new generation of automobile engineers. The industry needs enthusiast engineers, who have fresh, distinct and innovative ideas for the production of more and more such sophisticated machines. There is bright career for Automobile Engineer in future.

### Departmental Role :

- The department is well equipped with equipments & facilities related with Automobile Engineering
- The department is organizing work-shops, In plant – training, industrial visits, guest lecture by eminent personalities in automobile sector & esteem organizations like Tata Motors
- The department is having highly qualified & experienced staff on its role.
- The department has well equipped laboratories in following subjects :
  - ❖ Vehicle Layout & Transmission System
  - ❖ Heat Power Engineering
  - ❖ Automobile Engines
  - ❖ Automobile Systems and Body Engineering
  - ❖ Autotronics
  - ❖ Automotive Electrical & Electronic Systems
  - ❖ Automobile Air Conditioning
  - ❖ Two Wheeler Technology
  - ❖ Advanced Automobile Engines
  - ❖ Vehicle System Maintenance

### Career Forecasts :

Automobile industry requires huge numbers of engineers to tap the untapped spaces domestically and overseas. The industry has an increased international penetration besides meeting the advancing domestic demands. Since the industrial expansion is phenomenal, automobile engineering is seen as a promising career option among the young aspirants.

The industry offers multiplicity of roles for skilled professionals. Some of the job roles are as following :

- Designing, development and manufacturing of vehicles
- Preparing blueprint of vehicle and its components
- Using traditional as well as most advanced technologies to engineer vehicles
- Working as maintenance and services engineers in automobile workshops, aircraft industries, aviation, marine vessels, and diesel power stations
- Automobile Technicians: These technicians are generally responsible for servicing, repairing and overall maintenance of vehicles.
- Automobile Designers: These designers are responsible for working on shape, size, etc. of vehicles. Every feature of the car requires an expert designer to design it.
- Executive and Managerial Positions
- Entrepreneur : start his own business in service industry of automobiles
- Government Job: In Government Organizations like RTO, ARAI
- Research and consultancy in Automobile Engineering

# DEPARTMENT OF COMPUTER ENGINEERING [INTAKE-60 + 60]



We started our journey in the year 1996.

To produce highly qualified, well rounded and motivated graduates who can meet new technical challenges, contribute effectively as team members and be innovators in computer hardware, software, design and application.

To pursue creative research and new technologies in computer engineering and across disciplines in order to serve the needs of industry, government, society and scientific community.

To inculcate strong ethical values and responsibility towards society.

This has been achieved by the collective and responsive effort of the faculty, the supporting staff and the students.

## DEPARTMENT ROLE:

- The department is well equipped with excellent computing facilities and has highly qualified faculty specialized in areas like Multimedia Communications, Wireless Networking, VLSI design, Data Mining etc.
- The department organizes workshops, IN-Plant training, industrial visits and Faculty Development Programs etc.
- The courses leading to a Diploma in Computer Engineering was started in the year 1996. The department presently has highly qualified and experienced staff on its role. The department has well equipped laboratories for the following subjects :
  - ❖ Advanced Web Technology
  - ❖ Advanced Microprocessor
  - ❖ Visual Studio.Net
  - ❖ Computer Hardware & Peripherals
  - ❖ Object Oriented Programming
  - ❖ Advance Java and Java Programming
  - ❖ Oracle





### NETWORKING LAB

#### CARRIER FORECASTS:

- ✓ Computer engineers specialize in areas like digital systems, operating systems, computer networks, software etc.
- ✓ Graduates of computer engineering find employment in a variety of settings, such as universities, industry, and government organizations.
- ✓ Computer engineer can lead as computer network architect, programmer, Computer hardware Engineer. Application engineer, System engineer etc.
- ✓ IT engineers can grab interesting jobs like computer programming, Systems Analyzing, software and hardware development, web designing, networking, software testing etc.
- ✓ Computer engineering has grown and matured into a dynamic major helping to drive the wave of technological growth in the world.



# DEPARTMENT OF INFORMATION TECHNOLOGY [INTAKE-60]



We started our journey in the year 2001.

Innovation with intellectual mind is essential in order to become a talented IT professional. The world of education is changing as the modern world continues to grow. In this modern day and age, information technology plays a big role. Information Technology is one of the most promising and rewarding field. It is the study and use of systems for storing, retrieving and sending information. This can include software, hardware, applications, and so much more. Business, education and even health care have all been redesigned, thanks to information technology. Due to the importance and reputation of IT, the present age is sometimes referred to as information technology age.

## DEPARTMENT ROLE:

- In order to excel in this field, department is devoted, committed and dedicated towards teaching process and its implementation.
- Our imaginative faculty focuses on innovative ideas, technical and practical knowledge as well as entrepreneurship skills which bring professional ethics in students.
- Department arranges extra-curricular programs for students for their personality development.
- Department provides Summer Internship in Industries.
- The department presently has highly qualified and experienced staff on its role.
- The department has well equipped laboratories for the following subjects.
  - ❖ Advanced Web Technology
  - ❖ Advanced Microprocessor
  - ❖ Visual Studio.Net
  - ❖ Computer Hardware & Peripherals
  - ❖ Object Oriented Programming
  - ❖ Advance Java and Java Programming
  - ❖ Oracle



### MULTIMEDIA LABORATORY

#### CARRIER FORECASTS:

- ✓ Career in IT is considered one of the most high-paying jobs and is full of opportunities.
- ✓ IT Service provider based companies concerned in hardware/software development, application and its testing employ IT professionals.
- ✓ IT can take a person to higher levels. Numerous IT companies from India employ huge number of computer professionals in their Indian and overseas offices.
- ✓ Skilled professionals working in multinational companies can earn a handsome salary bracket.

# DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION [INTAKE-60]



We started our journey in the year 2003.

Electronics and Telecommunication covers vast areas in the field of engineering. Electronic and telecommunication engineering is an engineering discipline where non-linear and active electrical components such as electron tubes, and semiconductor devices, especially transistors, diodes and integrated circuits are utilized to design electronic circuits, devices and systems, typically also including passive electrical components and based on printed circuit boards. Electronics & Telecommunication is a diverse field of engineering which is connected to all branches of engineering.

## DEPARTMENT ROLE:

- The department presently has highly qualified and experienced staff on its role.
- Electronics & Telecommunication Engineering discipline today is multi-disciplinary in nature representing an actual synergy of different technologies ranging Micro-controllers, Digital Signal Processing, VLSI etc.
- Here we provide best infrastructure, qualified & motivated staff, well-furnished classrooms and much more.
- Most of the faculty members presented papers at several national and international conferences and journals.
- Department provides Summer Internship in Industries.
- The department is well equipped with laboratories covering all courses of the Electronics & Telecommunication engineering.
- The department has well equipped laboratories for the following subjects :
  - ❖ Basic Electronics
  - ❖ Digital Techniques & Microprocessor
  - ❖ Communication
  - ❖ Industrial Electronics
  - ❖ Linear Integrated Circuit
  - ❖ Testing & Measuring



## COMMUNICATION LAB

### CARRIER FORECASTS:

- ✓ Electronics and Telecommunications engineering technology is a broad field concerned with the development, installation, testing and maintenance of communications systems.
- ✓ Companies in India for Electronics and Telecommunication are BSNL, MTNL, Defense sector, NPL, Telecom Department, Railways, Bharat Electronics Limited, DRDO, IBM, TATA consultancy services, Infosys, Hughes, Ericsson, TATA Teleservices, Reliance, L&T Infotech, Microsoft, Ninescript Technologies Pvt. Ltd, Vodaphone etc.



# DEPARTMENT OF INSTRUMENTATION ENGINEERING [INTAKE-30]



We started our journey in the year 1996.

Instrumentation is the development or use of measuring instruments for observation, monitoring or control. An instrument is a device that measures a physical quantity, such as flow, temperature, level, distance, angle, or pressure. Instruments may be as simple as direct reading hand-held thermometers or as complex as multi-variable process analyzers. Although instrumentation is often used to measure and control process variables within a laboratory or manufacturing area; it can be found in the household as well.

## DEPARTMENT ROLE:

- The department presently has highly qualified and experienced staff on its role.
- The department has well equipped laboratories on the following subjects :
  - ❖ Instrumentation & Process Control
  - ❖ Communication
  - ❖ Industrial Electronics
  - ❖ Linear Integrated Circuits
  - ❖ Biomedical Engineering



**INSTRUMENTATION & CONTROL LAB**

## CAREER FORECAST FOR INSTRUMENTATION ENGINEERING

- ✓ There are a myriad of career possibilities for instrumentation engineers. For example, they might design strain gauges or sensors that capture data about the safety, efficiency and reliability of machines used in manufacturing.
- ✓ They also might design devices like blood glucose monitors, aircraft sensors, smoke detectors or dynamometers that measure torque.
- ✓ They might develop electrocardiograph equipment and computed tomography scanners or they might work on security systems. In addition, instrumentation engineers have been essential to the success of every aeronautical research project ever flown.
- ✓ Instrumentation engineers might be employed by manufacturing firms, defense contractors, biomedical companies, or government entities; or they might work for private engineering firms.
- ✓ Companies in India for instrumentation are National Instruments, ABB, Larsen & Turbo, Robert Bosch, Suzlon, Apna Technologies, Whirlybird, ESSAR etc.



# DEPARTMENT OF CIVIL ENGINEERING [INTAKE-120]



We started our journey in the year 2004. Over years, shelter, water & communications have remained always on priority in national planning. To overcome all problems of population and urbanization in infrastructural development, role of civil engineer is of prime importance even in era of IT. Civil Engineering is the oldest Engineering Discipline after Military Engineering. It is traditionally broken into different disciplines including Environmental Engineering, Structural Engineering, Transportation Engineering, Water Resource Engineering, Geo-technical Engineering, Material Engineering, Survey Engineering and Construction Engineering. Civil Engineering takes places at all levels in the public sector and private sector. Civil engineers will always be needed to maintain and repair existing facilities and structures and to construct new ones.

## DEPARTMENT ROLE:

- Department work with aim- “To be the Source-head of new ideas and innovations in Civil Engineering and offering world class professional knowledge as well as leadership in civil engineering to students.”
- Department is always keen to provide opportunity for students to have practical field exposure on the civil engineering jobs.
- Faculty is always ready to produce academically sound, disciplined and competent engineer who will become principals in the industries associated with civil engineering and professional engineers’ starting-up and growing their own new firms.
- With academic, department encourages students to show their talent in various extra-classroom activities.
- The department presently has highly qualified and experienced staff on its role. The department has well equipped laboratories on the following subjects.

- ❖ Surveying
- ❖ Engineering Mechanics
- ❖ Fluid Mechanics
- ❖ Strength of material
- ❖ Soil Mechanics
- ❖ Concrete Technology





**GEOTECHNICAL LABORATORY**

## **SURVEYING**



### **CARRIER FORECASTS:**

- ✓ The experts say there is a high demand for experienced civil engineers in developed countries.
- ✓ Civil Engineers can find job in Government departments, private and public sector industries, research and teaching institutions etc. Job opportunities for civil engineers are expected to increase as fast as the average for all jobs, although the construction industry is vulnerable to fluctuations in the economy.
- ✓ Civil Engineering students have ample opportunities in: State /Central Government Jobs , the railways, private construction companies, military, engineering services, consultancy services, road projects, building work, consultancy firms, quality testing laboratories or housing societies etc.
- ✓ IES (Indian Engineering Services), WRD (Water Resources Department), PSU (Public Sector Units), PWD (Public Works Department), Real estate sector ,Self-employment as well as best carrier options in abroad.



# DEPARTMENT OF ENGINEERING SCIENCES



Knowledge of applied physics and chemistry is also important for these budding engineers. In today's society, chemistry is greatly involved in the world of engineering. Whether it is aerospace, mechanical, environmental or other engineering fields, the makeup of substances is always a key factor which must be known. Engineering today has morphed from only dealing with the physical aspect of the field into the theory behind the field. All engineering fields have unique bonds with the chemistry world.

Physics is the mother of all sciences. Mathematics and Chemistry are finally the derivatives of Physics. Engineering is also a form of applied science with Physics as an important part. All the activities in our daily life involve the application of physics. For example, ironing clothes, cooking, washing, answering a telephone call, listening to the radio, etc are some of the activities where we use the principles of physics.

## DEPARTMENT ROLE:

- The department of Engineering Sciences conducts courses on the subjects like Applied Science, Mathematics, English, and Communication Skills etc. as a part of Diploma in engineering syllabi of the Maharashtra State Board of Technical Education, Mumbai.
- The department has well equipped laboratories for the following subjects.
  - ❖ Applied Physics
  - ❖ Applied Chemistry
  - ❖ English / Communication Skills

## PHYSICS LAB



## CHEMISTRY LAB



## AMENITIES

### CLASSROOMS



Knowledge is a power and ideas Rules the World. A classroom is a learning space, a room in which classes are held. Enriched classrooms are present where student not only learn but interact with the faculties in a healthy atmosphere. With the help of working models, learning becomes interesting and easy. Here student can share their views ideas.

A library is a collection of sources of information and similar resources, made accessible to a defined community for reference or borrowing. The Library is well equipped & managed by experienced staff. It houses 10000 selected books & 50 periodicals, National & International. The institute is always increasing its inventory of books. Numbers of technical VCD's, DVD's and video cassettes are available for the students' reference. In future our library is going to take the membership of other libraries of reputed organization like ARAI, British Library etc. The library subscribes to well-known Engineering Journals, Periodicals, Magazines & Newspapers.

### LIBRARY WITH DIGITAL SUPPORT



Students issuing the Books at Library Counter Polytechnic.



Students checking the latest journals in the Polytechnic Library





The Students availing the internet facility made available in the Polytechnic Library.

New barcode technology helps to maintain the inventory of books. Library is with the digital support where student can access the e-books and many websites which will help them to update them with latest technologies.

The one who reads that person in leads. Reading room present in campus which is open during college hours. Reading habit develops the knowledge based civilians which inculcates the value system in society. Reading rooms provide the students the healthy environment for studies. Reading helps these budding engineers to update their knowledge. The facility is available to all the students and the hall remains open from 8.00 a.m. to 4.00 p.m., every day, except Holiday.

### READING HALL



### ADMINISTRATIVE SECTION



Well organized administrative section, account section and student section helps in smooth functioning of institute. It maintains all important data of institute. It helps staff as well as students.



## ANNUAL EVENTS



Students of Computer Engineering during visit to Seismological Observatory.



## TRAINING & PLACEMENT CELL

### “DISCOVER THE DESTINATION”



Students involved in groups discussion with training & placement officer in T & P office.

### ABOUT TRAINING & PLACEMENT CELL

The goal of Training & Placement Cell is to provide students with a platform for using their potential to gain valuable experience by working in industry. It also acts as the interface between various companies seeking talented young graduates and post graduates in various disciplines. The primary goal of the polytechnic institution is to provide a capable manpower to the industry at supervisory level. Our Training and Placement Cell is actively involved in coordination with all the departments to build the necessary capabilities in our students under the guidance of the Principal.

#### Following Activities Carried Out By Training & Placement Cell

- ❖ Approaching industry for campus interviews.
- ❖ Organizing expert lectures on various Technical Topics.
- ❖ Organizing industrial visit for students.
- ❖ Interacting with industry for project sponsorship, vocational training etc.
- ❖ Organizing quantitative aptitude sessions.
- ❖ Organizing soft skill sessions to improve the soft skills of students.
- ❖ Organizing seminars and workshops to improve the professional skills of students.
- ❖ Organizing quiz and mock interviews to improve their core competence
- ❖ Conducting campus placement drives.

Training and Placement Cell is taking enormous efforts in approaching various industries from diverse sectors and interacting with industry-officials continually. We have a very good placement record. Our students are working in reputed industries. In short Training and Placement cell is playing a pivotal role in bridging the gap between industry and the institution.



Students giving Aptitude Test of TATA Motors Ltd., Pune During Campus Placement drive.

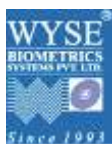


Students being interviewed by HR Officers of a company, United Conveyor Corporation, Pune during campus placement drive.

## OUR PRIME RECRUITERS



JOHN DEERE



**Mahindra**  
ENGINEERING



## Institutions of All India Shri Shivaji Memorial Society, Pune - 5

- AISSM Society's Institute of Technology, Pune-1
- AISSM Society's Private Industrial Training Institute, Boribhadak, Tal. Daund, Dist. Pune
- AISSM Society's College of Engineering, Pune-1
- AISSM Society's College of Engineering (PG), Pune-1
- AISSM Society's Polytechnic, Pune-1
- AISSM Society's II Shift Polytechnic, Pune-1
- AISSM Society's College of Pharmacy, Pune-1
- AISSM Society's College of M. Pharmacy, Pune-1
- AISSM Society's College of Pharmacy(Ph.D. Research Centre), Pune-1
- AISSM Society's College of H.M.C.T (BHMCT), Pune-5
- AISSM Society's College of H.M.C.T (BSc.H.S.), Pune-5
- AISSM Society's Institute of Information Technology, Pune-1
- AISSM Society's Institute of Management (MBA), Pune-1
- AISSM Society's Shri Shivaji Preparatory Military School, Pune-5 ( Secondary)
- AISSM Society's Shri Shivaji Preparatory Military School, Pune-5 ( HSC Science & Commerce)
- AISSM Society's Shri Shivaji Preparatory Military School, Pune-5 (MCVC)
- AISSM Society's Shri Shivaji Preparatory Military Primary Boarding School, Pune-5
- AISSM Society's Shri Shivaji Preparatory Military Day School & Junior College, Pune-1 ( Secondary)
- AISSM Society's Shri Shivaji Preparatory Military Day School & Junior College, Pune-1 ( HSC)
- AISSM Society's Shri Shivaji Preparatory Military Day School & Junior College, Pune-1 (MCVC)
- AISSM Society's Shri Shivaji Preparatory Military Primary Day School , Pune-1
- AISSM Society's Shri Shivaji Preparatory Military Nursery School, Pune-1

All India Shri Shivaji Memorial Society (AISSMS) is imparting education to over 10,000 students from Nursery to Engineering Degree and Diploma courses, which are running smoothly and efficiently.

### Address for Correspondence :

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