



**WALCHAND INSTITUTE OF TECHNOLOGY**

S.A.P.D. Jain Pathashala's

# **Walchand Institute of Technology, Solapur**

Permanently Affiliated to Solapur University

**AICTE Approved**  
**Accredited by NBA, New Delhi**

• Courses Offered •

**UG** : Civil, Mech, Eln, E&TC, CSE, IT,

**PG** : Civil, Mech, Eln, CSE

**Doctoral Programs** : Civil, Mech, Eln, E&TC, CSE

• **Visit us : [www.witsolapur.org](http://www.witsolapur.org)** •

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## Shri A.P.D. Jain Pathashala



**Seth Arvindji Doshi**  
Eminent Industrialist  
Chairman, S.A.P.D. Jain  
Pathashala, Solapur.



**Dr. Ranjeet H. Gandhi**  
Hon. Secretary, S.A.P.D. Jain  
Pathashala, Solapur

Shri Aillak Pannalal Digambar Jain Pathashala Trust, established in 1885, has completed 127 years of its service in education.

Originally started with the objective of imparting religious education to students, the trust gradually moved into the field of general education and established high schools. In its 75th year, the trust started a multi-disciplinary educational activity. Today, the trust has to its credit 21 educational institutions. The latest and significant achievement of the trust is the setting up of '**Walchand Institute of Technology**', Solapur.

More than 16,000 students are perusing quality education under the umbrella of S.A.P.D. Jain Pathashala Trust, Solapur.



Late Shriman  
Seth Lalchand  
Hirachand



Late Shriman  
Bhausaheb Alias  
Hiralal Amichand  
Gandhi

## Walchand Institute of Technology (WIT), Solapur



**Dr. S. A. Halkude**  
Principal

Shri Aillak Pannalal Digambar Jain Pathashala Trust, started WIT in July 1983 which is appropriately named after Seth

Walchand Hirachand, one of our country's pioneers of industrial development. It is the sincere desire of the trust and the Governing Body of WIT to maintain high academic & technological standards. Seth Walchand's name and his achievements inspire the students passing through the portals of this college to attain high degree of proficiency in their academic and professional careers.

The city of Solapur, one of the major industrial centers in

Maharashtra is often referred as the Manchester of the east. Solapur is well connected by road & rail. The nearest airports are Pune, Mumbai and Hyderabad.

The facilities provided at the college have been adjudged amongst the best, according to an independent Newspaper survey. Inspection team of State Government of Maharashtra has awarded 'A' grade to the Institution. The Institute is approved by the All India Council for Technical Education (A.I.C.T.E.), New Delhi. All the 6 programs are accredited by NBA, New Delhi. The Institute also works as a training centre for NBA., New Delhi. The institute offers U.G., P.G. & Doctoral Programs.

## Vision

To produce young, globally competent Graduates / Post-Graduates / Doctoral Engineers with an aptitude for leadership and research, to face the challenges of modernization and globalization courageously who will be instrumental for overall growth of the society.

## Quality Policy

To empower Faculty and Students by subscribing to Total Quality Management (TQM) and by adopting dynamically improving teaching-learning process in the field of Science & Technology to become a force to be reckoned with.

## Central Library





## Civil Engineering



The Civil Engg. dept. was established in the year 1983. Total 12 laboratories in various specialization in Civil Engineering form an excellent infrastructural facility. The Department is having a tradition of excellence in academics. Students are encouraged to appear for various competitive examinations such as UPSC, MPSC, Engineering Services & GATE. Over 250 students are selected as class I, class II officers through MPSC Engineering Services Examination.

Students overwhelmingly participate in various co-curricular as well as extra curricular activities, such as paper presentation competition, elocution, debate competition & various sports events. The department renders testing facilities and consultancy services to society since the inception of the Institute. National Ambient Air Quality Monitoring Project sponsored by Central Pollution Control Board of Govt. of India is being run by the department for the last 17 years. The department has imparted training to engineers of PWD, SMC, Pandhe Infracon Pvt. Ltd., etc.

Mechanical Engineering department was established in 1989 & has a sanctioned intake of 120. PG programme in Design Engg. is offered by department & researchers are pursuing their PhD programme in the university recognized research centre. Laboratories have state-of-art infrastructure with latest machine tools like FMS setup including Robot, AGV, ASRS, and CNC Machines. Various conventional machines are available in the machine shop, which is, at par with the industry. The department has two fully computerized & three conventional test rigs for performance evaluation of engines. Refrigeration & Air Conditioning lab, mini ice plant, A/C test rig, REFPROP are used to evaluate the effect of different refrigerants. Hands on experiments with jigs-fixtures, surface testing equipments, heat transfer, process planning task, metallurgical aspects & stress analysis along with industrial visits are conducted for creating industrial awareness among students. Computer centre has licensed software like CATIA, SOLIDWORKS, SOLIDCAM & ANSYS which are in line with the expectations of the industry. SAE club provides a competitive platform to the students to showcase their skills in developing off-road, Formula-1 & Eco vehicles along with a business plan. Entrepreneurship Development cell inculcates the business skills in building future entrepreneurs whereas the Soft Skills cell offers leadership skills to the overall development of the students.

## Mechanical Engineering



## Electronics Engineering



The department of Electronics Engineering is functioning since the inception of the institute (1983) and offers U.G., P.G. & Doctoral programs in Electronics Engg. The Department has qualified & experienced faculty members.

The department has spacious & well equipped laboratories, which include Microwave, Analog Communication, Digital Communication, Embedded System VLSI, DSP Electrical Engineering, Power Electronics, Control System, Instrumentation, Basics Electronics & PCB. It has also computing facility with latest Pentium computers & Broadband Internet connectivity. It is enriched with the latest software like ORCAD, MATLAB with tool boxes & XILINX. The department has liaison with ACTEL INC (USA) & Cypress Semiconductors (USA) through its sponsored laboratories & projects. The dept. has received grant under MODROBS scheme from AICTE & DST, New Delhi.

The department of Electronics & Telecommunication Engineering was started in the year 1999. The department started second shift in 2010. The department has excellent teaching staff & has received various grants from AICTE, New Delhi under Research promotion scheme. The teaching learning process is tailored to suit the needs of industry and career development. Students are encouraged to participate in state level & national competitions in academic & cultural areas.

The department has well equipped laboratories like Microwave & Radar, Advance Communication, Optical Communication, Embedded System, Project Lab, Control Lab, Basic Electronics, etc. A number of students have topped in the university merit list & have qualified competitive examinations like GATE, CAT & CMAT. The Department has excellent placement record.

## Electronics & Telecom. Engg.



## Computer Science Engineering



CSE department offers U.G., P.G. and Ph.D. courses. We have a comprehensive curriculum on topics related to all aspects of Computer Science & Engg. with an emphasis on practical learning.

The Department has state-of-the-art infrastructure and computing equipment & offers consultancy & services in the areas of Data Mining, Big Data, & Internet of things and Cloud Computing human-computer interaction, networks, robotics, software engineering, and visualization. The department has a separate Lab on cloud computing sponsored by AICTE and has undertaken many research projects funded both by AICTE & government agencies.

Our faculty members aim at delivering top class education blending their rich research experience with classroom teaching. The department seeks to nurture the talents of students, and to create opportunities outside of our curriculum. The department has signed MoU with IBM, TCS, Infosys and others, for academic collaborative projects.

This department was established in 1999. It has 8 well equipped state of art laboratories & qualified faculty from reputed institutes. The teaching learning process is based on industry needs & the career development of students. Information Technology Department has been consistently bagging at least four out of the five top university ranks of Solapur University. We have signed MOUs with IBM, Infosys & are accredited by NBA, New Delhi & TCS & also recognized by Institution of Engineers. GATE Forum encourages students for higher studies. Under the banner of Computer Society of India & our student association CISA, we continuously conduct programs for the technical & overall development of our students. Our department's personality development cell helps to improve the communication skills of our students. Our teachers as well as students present Technical papers at State, National & International level on a regular basis. Hardware & software based Projects developed by our students are helping society & various organizations. Our faculty work as consultants for establishing new computer centres, developing required networks for institutions & work as chair for conferences & workshops.

## Information Technology





Library of WIT is known for its richest collection of books & journals. It is one of the best libraries in the region. The library functions from 9.00 a.m. to 8.00 p.m. on all working days. All the books have been classified as per Dewey decimal classification & are available for open access.

**Collection :** Library provides services & facilities as per the requirements of the Institutional teaching & research programs. It has collection of reference books, handbooks of Intel, Motorola & National Semiconductor devices. The collection includes the following: Books Reference Sources-Dictionaries, Encyclopedias, Handbooks, Journals/Periodicals (Print format); National & International domains E-Journals (IEEE,IET,ACM) & bound archives of old Periodicals. Magazines, Newsletters, Newspapers & Data Manuals-Motorola, Intel, National Semiconductor, etc. CDs, VCDs, DVDs, etc. Digital Library & E-learning sources are also available.

## Library



## Sports



The college has a Gymkhana Department which provides sports facilities to students for indoor games and outdoor games. The campus has state of art Olympic size sports athletics track of 400m., well maintained football ground, hand ball ground, basket ball court & volley ball court.

A seperate cricket field adds energy and enthusiasm to WIT's sporting genius. WITians have excelled at inter-collegiate, university, state & national level sports meets.

## Major MOUs

The college has made MOUs with major companies for the development of the students & to bridge the gap between the industry & the institute. Some of the MOUs are as follows :

Name of Industry	MOU Details
INFOSYS	Campus Placements, Offering industry electives Training to faculty Competitions for Faculty & students, Curriculum formulation
IBM	To work together to offer the University Program. To aid in establishing a high quality people repository in software technologies.
Balaji Amines Ltd.	R&D in Computer Science & Engineering
Microlink Infotech Pvt.Ltd.	R&D in Computer Sci. & Engg.
Dnyandeep Education & Research Foundation	R&D in IT and Civil Engg.
Sujay Industries, Pune	Projects, Industrial Visits & Training & Services to Industry
Ajinkya Enterprises	Projects, Industrial Visits & Training & Services to Industry
Technovision Engineers Pvt. Ltd. Solapur Construction & Fabrication Pvt. Ltd	Projects, Industrial Visits & Training & Services to Industry
Discover India Packaging	Projects, Industrial Visits & Training & Services to Industry
Shree Siddha Engineers	Projects, Industrial Visits & Training & Services to Industry

## Faculty Development Programs

Faculty Development Programme (FDP) aims at equipping teachers with skills and knowledge that are essential for inculcating entrepreneurial values in students and guiding and monitoring their progress towards entrepreneurial career. Every year college conducts various faculty development programmes for honing the skills of over 150 qualified & experienced faculty. Every faculty undergoes atleast 1 FDP in an academic year. They also work as resource persons for various training programs. The faculty have more than 130 research publications to their credit .

The faculty receives frequent training from industry & their competency is evident from 38 training programs they provided to industry for civil engg. & 11 executive programs

attended by industry. As a testimony of our confidence in the skills and ability, industry assigns us various services, technology transfers, contractual research projects, consultancy & advisory services.

Organisation Providing Training	No.of Faculty	Program
IIT., Bombay	55	Research Methodologies
IIT., Bombay	75	Aakash for Education
IIT., Bombay	45	Research Methods in Educational Technology
IIT., Bombay	44	Engineering Thermodynamics
IIT., Bombay	23	Database Management Systems
IIT., Kharagpur	8	Analog Electronics
MTAB Engineers Pvt Ltd, Chennai	2	CNC Programming
NBA New Delhi	5	Outcome Based Education
IIT., Bombay	2	Effective Teaching - Learning Strategies for Quality Education
Wipro Technologies	40	Mission 10X Faculty Workshop

## Student Internship Program



Every year the students of WIT undergo internship program in various industries. Internship gives hands-on experience to students & exposes them to the dynamics of industry. Some interns find permanent & paid employment with the organizations with which they do internship. This can be a significant benefit to the employer as experienced interns often need little or no training when they begin regular employment, unlike the trainee program. More than 100 companies offer internship training to students.

## Students' Achievements

- Special prize in Competition: National Student Award Competition for the Best Innovative Structural Steel Design 13-14 organized by Institute for Steel Development and Growth (INSDAG).
- Awarded in Engineering Students Innovation Challenge 2014 (ESIC 2014) organized by International Society for Scientific Research and Development (ISSRD) for project titled "Solar Powered Automatic Wheel Chair"
- 2<sup>nd</sup> Prize in AVISHKAR-2013 Maharashtra State Level Inter-University Research Convention
- 14<sup>th</sup> Rank in All India SAE Baja Competition All Terrain Vehicle
- 66<sup>th</sup> Rank at FSAE SUPRA 2014, grabbing 2 stickers
- Internship Award at e-Yantra, Ideas Competition at IIT, Bombay
- First Prize at National Robotics Championship organized by IIT, Bombay and sponsored by IIT, Kharagpur
- 35<sup>th</sup> Rank at SAE EFFI- Cycle, National level Hybrid Tricycle Competition, at Chandigarh

## Infrastructure Provided by Industry

Organization	Name of Infrastructure
ACTEL, USA	VLSI Development lab
AICTE	Servo Hydraulic Shake Table
	Software UML2
	CNC Machines
	Apple Mac Mini Server,
	Apple Mac Mini Node (2)
	DELL Server
	VmWare VSphere software
	FMS Setup
	Silver & Digital Schmidt PC Type with accessories Rebar Locator Profometer
Balaji Weaving Mills	Availing facility of Laboratory & Process Systems
Bosch Chassis Systems (I) Ltd.	Assembly kit for Competition
Cypress Semiconductors, USA	PSoC Development Boards with Derivative Software
Department Of Science & Technology (DST)	Image Processing Related Software and Laptop
Gandhi Motors	Components for Developing All Terrain Vehicle
Global Talent Track (GTT)	Application Software for Modelling
IBM	Software of Rational Rose (Design & Testing)
	DB2 (Database Management)
IIT., Bombay	Aakash Tablets for Research & Development, Development of Pedagogical School Level Material
Indian Society Of Structural Engineers, Mumbai, (Solapur Local Centre)	Study Materials for Workshops
Kasturi Metals, Amravati	Fibres for Reinforcement in Concrete
Maharashtra Energy Development Agency	Solar Energy Equipment
Central Pollution Control Board Maharashtra Pollution Control Board	Equipment for Monitoring Ambient Air Quality
Texas Instruments, USA	PANDA- Mobile computing & Application Development Boards
Textile Development Foundation, Solapur	Providing Database & Library Facility
The Institute Of Engineers (India), Kolkata	Funds for Collecting Data Sets, Storage media & Printing facility for E-material
The Thomas Edison Program For Environmental And E-learning Development	Digital Library Server & Terminals, E-Learning Resources
Wipro Technologies	Learning Material and Expertise
Auto World	Automobile Components
Laxmi Oil Pump & Systems Pvt Ltd	Machining & Inspection of Mechanical Components
Vijay Engg. Works	Manufacturing & Testing of Mechanical Components

## FACULTY PATENTS

- 1) **Dr. S.A.Halkude - Invention** : Process And Device For Water Purification Using Novel Coagulant.
- 2) **Dr. S.K.Sarsamkar - Inventions** : 1) Synthesis of Schiff-Base & Their Transition Metal Complexes. 2) Synthesis & Biological Activity (Antibacterial & Antifungal) of Schiff-Base Metal Complexes.



## Training & Placement cell

WIT is a sought-after campus for the major multinational corporations for Campus Placements. The Training & Placement Cell has a legacy of providing quality placements to the students. Our alumni are serving in almost all the sectors across the globe. Thus, the top players visit WIT to recruit engineers with innovative and reengineering spirit.

The Training & Placement Cell provides an excellent Corporate Interface by arranging interactive sessions with the veterans of the industry. Soft Skills Cell, an important arm of T & P cell, trains students in Personal Interviews, Group Discussion, Aptitude Test, Interpersonal Skills & Personality Development to make them corporate worthy.



The Training & Placement cell, the culmination of Industry Institute Partnership Cell (IIPC), Entrepreneur Development Cell, Alumni Association Cell, Counseling Cell, Employment Enhancement Programs & Soft Skill Cell, provides excellent job opportunities to students in MNCs across the globe. It also inspires the students to become first generation entrepreneurs. Our vision and belief consolidates in our efforts to ensure that our students become self developed industrialists of tomorrow. Our students have a mission of adding value to the society through technological innovation. Thus, the Recruiters have always found value in the quality of students at WIT. Over 60 diverse companies spanning the country vie to recruit WITians.

## Industry Institute Partnership Cell

The IIPC works as a focal point for better interaction & bridging the gap between the institution & the industry. The IIPC is sponsored by AICTE, New Delhi. High priority is given to activities designed to bring about improvement in the development and performance of industries & institutions. It plays a vital role in campus placements, industry study tour program, internship program & in-plant training.



## Campus Activities

- 1) SAE BAJA India - Society of Automotive Engineers' National Level Students off road Car competition
- 2) SAE Effi-Cycle India - Society of Automotive Engineers' Students Hybrid Tricycle competition
- 3) Acceleration - National Level Technical Symposium for Mechanical Engineering Students
- 4) WITech- National Level Technical Symposium for all Engineering Students
- 5) WITchar - National Level Technical Symposium for all Engineering students

## Recent Awards & Recognition



- AICTE- CII Survey 2013 Award for Best Industry Linked Institution in Civil Engineering. All other disciplines shortlisted for final round.

- All Programmes accredited by NBA, New Delhi
- Accredited by TCS
- EDU Rand Rank: 6th in Maharashtra
- Recognized by The Institution of Engineers (India)
- Institute is
  - ▶ Training Centre of NBA, New Delhi
  - ▶ Research Centre of Solapur University, Solapur
  - ▶ Part of Infosys Campus Connect Program
  - ▶ Training Centre of Wipro-Mission 10X Workshops
  - ▶ Lead Institution, IUCEE
  - ▶ Remote Center for NMEICT
- Our College Magazine - 'Witness' Winner for more than two decades.

## Industrial Visit



Industrial visit is a part of an engineering course, during which students visit companies & get insight regarding the internal working environment of a company & how a company functions, as well as useful information related to the practical aspects of the educational course which cannot be visualized in lectures. The industrial visit is considered one of the most tactical methods of teaching. It provides students with an opportunity to learn practically through interaction, working methods & employment practices. Moreover, it gives exposure from an industrial point of view. Some of the companies are IL&FS Transportation, Central Railway, Port of Karwar, Public Works Department, Karnataka; Vishal Nirmiti Pvt Ltd, Rajashree Cement Works, Water Resource Department, Shraddha Group, Techno Circuit Systems, Prasarbharti (Broadcasting Corp.Of India), Reanu Microelectronic Pvt. Ltd., Pune, Akashwani Kendra, Solapur, Doordarshan Kendra, Paras Power Electronics Bangalore, ISRO Satellite Center Bangalore, Electronic System Association, etc.

## Major Recruiters

### Electronics & IT Sector : Infosys Technologies | Cognizent Technologies Ltd. | TCS | HSBC |

Tata Elxsi | Tata Technologies | Tech Mahindra | Satyam Technologies | Persistent Systems Pvt.Ltd. | GEM | SIPL | KPIT Cummins | L & T Infotech | Aztec | E-Infochips | EATON Engg. India | NSE IT | Avya Tech | Syntel Ltd. | Atos Origin Ltd. | Nihilent Technology. | Aftek Ltd. | Blue Lane Technology | Shiv Tech Mumbai | Aplab Thane | Indian Navy | Enhanced Software Solutions | Sankalp Semiconductors | BoSh Biotechnologies | CMC Ltd. | Shriram Transport Finance Co.Ltd. | Galaxy Group | Softenger India Pvt.Ltd. | Paramatrix Technologies Pvt. Ltd.

**Mechanical Engg. Sector :** Kirloskar Ferrous Industries Ltd. | Kirloskar Oil Engines Ltd., Pune | Laxmi Hydraulics | Kirloskar Pneumatics Co. Ltd. | Kirloskar Brothers Ltd. | Kirloskar Copeland Ltd. | Premier Ltd., Pune | Godrej Ltd. | Mahindra & Mahindra Farm Sector (Tractors) | Mahindra & Mahindra Auto Sector | Mahindra USCOM | Tharmax Ltd. | Walchand Nagar Industries Ltd. | EPCOS | Triveni Turbines | Coopers India Ltd. | Kinetic Engg. Ahmednagar | SKF | Piaggio Vehicles Pvt.Ltd. | Eaton Trucks Div. | HYCA Ltd. | Burckhardt Compression Ltd. | Atlas Copco Ltd. | Tata Auto Components FDC | Tata Technologies | Master Handlers Ltd., Pune | Weels India Pvt. Ltd. | Mico Ltd. | Cummins India Ltd. | Thyssen Krupp Industries Ltd. | TVS Motors | Bosch Chassis India Pvt. Ltd. | Faurecia Design Centre India

**Civil Engg. Sector :** Shapoorji Pallonji | Gamon India Ltd. | Inorbits Malls Pvt. Ltd. | Frischman Prabhu | K. Raheja | Stup India Ltd. | Freyssinet Prestressed Concrete Co.Ltd. | Technimont | Gannon & Drunkerley | Serling | Mahindra Consultants Pvt. Ltd. | Atur India Ltd. | Ratilal Bhagwandas | Bharucha Motiwala | B.G. Shirke | CBRE | Aakar Abhinav Pvt. Ltd.