

shape your future



SONA
COLLEGE OF TECHNOLOGY

SONA COLLEGE OF TECHNOLOGY
THIYAGARAJAR POLYTECHNIC COLLEGE ROAD
SALEM - 636 005
TAMILNADU, INDIA

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Before you start reading this booklet, ask yourself a question.... Where do you see yourself ten years from now?

- Tech Lead in an MNC Software Development Firm
- Project Manager in a CMM Level 5 Company
- Technocrat in a Government Enterprise
- Marketing Manager in a corporate powerhouse
- Entrepreneur with your own flourishing business
- CEO of a global enterprise
- A successful technology/management professional

If you have ticked any one (or more) of the above mentioned options, then, read on...



SONA COLLEGE OF TECHNOLOGY

At Sona, Learning is a Celebration

Enter
this
Endearing
Shrine to
excel in
Education



Like a potter who shapes beautiful pitchers from humble clay, Sona shapes students into successful technocrats, ebullient visionaries and thought leaders

MR. M.S. CHOCKALINGAM
FOUNDER



*The Guiding light that shines
ever so bright...*

You'll be surprised to know that the man behind this magnum opus called Sona Group of institutions was a simple, humble, affable, kind-hearted gentleman called Mr. M.S. Chockalingam.

A skilled businessman and a great textile wizard, Mr. Chockalingam was at heart a big giver. His desire to give back to the society and nurture the next generation bore fruit in the form of the reputed Thiagarajar Polytechnic College, a top ranking institution in the country.

Mr. Chockalingam established Sona College in 1997. Sona, by the way, is the name by which Mr. Chockalingam was addressed by his friends and admirers. And just like the man himself, Sona College of Technology is now a powerful ray of hope that guides youngsters towards fulfilling careers.



**DO NOT GO WHERE THE PATH MAY LEAD,
GO INSTEAD WHERE THERE IS NO PATH AND LEAVE A TRAIL.**
- Ralph Waldo Emerson



FROM THE
CHAIRMAN'S DESK....

Dear friends,

Greetings. Many thanks for your interest in Sona College of Technology.

It is our deepest desire to serve the society by moulding the technocrats and business leaders of tomorrow.

To this end, we have endeavored to create a world-class educational institution that is complete in every way. Be it facilities or faculty, curriculum or career guidance, we seek to offer the very best to our students.

Education that is thorough, purposeful and meets the requirements of today's job market; education that disciplines and inculcates values; education that is in tune with the changing dynamics of today's competitive world - that is the kind of education that SCT offers.

Please feel free to take a look around our campus. Soak in the spirit of learning that Sona imbibes. Then, take your career dreams to the next level with Sona College of Technology.

Your future begins at Sona. Welcome.

Yours truly,

C. Valliappa
Chairman
Sona Group of Educational Institutions



***education that is
in tune with the
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education that
SCT offers.***

GUIDING THE WAY....

Mr. Chocko Valliappa

An industrial wizard with over twenty five years experience in textiles, outsourcing and plantations, Mr. Chocko Valliappa is a charming and mild-mannered individual, with a keen analytical mind and strong business insights. He has carved a niche for himself in the IT world and contributes tremendously to SCT's pioneering role in implementing innovative practices in IT Industries.



Mr. V. Thyagu Valliappa

A dynamic entrepreneur with a sharp business sense, Mr. Thyagu Valliappa heads the textile and garment enterprises of the Sona-Valliappa Group of Industries. A naturalist at heart, he contributes immensely to the growth of Sona group's plantation estates. He is deeply dedicated to the cause of higher education and infuses freshness and creativity in the functioning of SCT.

A FEW WORDS FROM

THE PRINCIPAL...



Strong foundation, successful results, highly motivating work environment, conducive learning atmosphere—all these and more make Sona the perfect place for professional education. When a student enters Sona, he is like an unpolished stone. We shape him into a glittering diamond, that's all set to shine bright in the real world.

SCT offers its students the very best in engineering education. It's actually a very exciting place to learn, to evolve and grow both as professionals and as good human beings.

Apart from world-class facilities and amenities, students are given hands-on training by experienced academicians and industry-trained professionals. Adequate emphasis is given to practical orientation along with strong theoretical insights. Our prime focus is to get them industry-ready, so that they can get the right kind of headstart on the careerfront.

Our goal at SCT is to create an academically-challenging and productive learning environment, where students can explore new frontiers and expand their horizons. This is the reason why we have made great leaps in the field of research and development. We seek to embed in our students a desire to venture into uncharted waters – to boldly push the boundaries of the known. Our students are involved in international and national real-time research projects that aim to improve the quality of life in many parts of the globe. This is an unbeatable advantage that only SCT can offer.

Most importantly, our placement cell works round-the-year to train and prepare our students for the nitty-gritty's of job interviews. Plus, they work tirelessly to ensure that our students are placed in top-of-the-line companies in really well-paid jobs.

Of course, fun, frolic and a little bit of laughter is a huge part of college life. SCT offers so many opportunities for our students to showcase their talents and have a good time.

So, what are you waiting for...get ready for an exhilarating learning experience at SCT...it's the right start for a bright future. I assure you.

Dr. V. Jayaprakash
Principal



SONA COLLEGE OF TECHNOLOGY

AN OVERVIEW

**EXPERIENCE THE GOLD STANDARDS
IN TECHNICAL EDUCATION!**



Sona College of Technology (SCT) is a top-notch technology institute in this part of the world. Founded in 1997, Sona College of Technology is located at Salem, Tamilnadu, and has gained a reputation as one of the premier technical institutions in the country.

An off-shoot of the illustrious Thiagarajar Polytechnic, the flagship of the Sona Group of Institutions, SCT is a vibrant institution, dedicated to creating the engineers and technocrats of tomorrow.

SCT is affiliated to Anna University, a university par excellence. SCT offers seven under-graduate programmes (B.E. and B.Tech degrees) and twelve post-graduate programmes (MCA and M.E. degrees) and many short-term programmes under its School of Continuing Education. The School of Management, located in the adjoining campus, offers the MBA programme.

Sona College of Technology looks beyond mediocrity and walks proudly towards excellence. The college has over thirty-three Research & Development (R&D) centres within the campus. Students are given an opportunity to contribute to several national and international research projects.

SCT equips its students with the right kind of skill sets and the right frame of mind to conquer the challenges of the real world.



4000

S T U D E N T S

FORTY FIVE

P R O G R A M M E S

300

F A C U L T Y M E M B E R S

**"ONE PASSION"
TECHNICAL
EDUCATION
PAR EXCELLENCE.**



VISION

To become an institute of great repute, in the fields of Science, Applied Science, Engineering, Technology and Management studies, by offering a full range of programmes of global standard, to foster research, and to transform the students into globally competent personalities.

MISSION

- To provide Graduate, Post-graduate, Doctoral and other value-added programmes beneficial for the students
- To provide state-of-the-art resources required to achieve excellence in teaching-learning, and supplementary processes
- To provide Faculty and Staff with the required qualification and competence and to provide opportunity to upgrade their knowledge and skills
- To motivate the students to pursue higher education, competitive exams, and other value added programmes for their holistic development
- To provide opportunity to the students to bring out their inherent talent
- To establish Centres of excellence in the emerging areas of research
- To have regular interaction with the Industries in the area of R & D, and offer consultancy, training and testing services
- To offer Continuing education, and Non-formal vocational education programmes beneficial to the society





SERENE. SPACIOUS. SPECTACULAR. SONA.

THE SONA CAMPUS

Amid 34.5 acres of serene, unspoiled lands stands tall a marvel in architecture – the buildings of Sona College of Technology. Stunning exteriors, well-planned and aerated interiors, aesthetically-designed lawns and gardens make Sona campus the perfect backdrop for a complete educational experience.

Well-lit classrooms and state-of-the-art laboratories, several seminar halls and auditoria are an integral part of the Sona campus.

Sona's library needs a special mention here. It houses one of the largest collection of books, journals (international and national) and magazines pertaining to science and technology in this part of the world.

There's a wonderful canteen that serves quality snacks and beverages. And large playgrounds for every kind of sporting activity under the sun – basketball, tennis, cricket, football and so on.

There's a clean and beautifully-designed swimming pool for aquatic sports and related activities. The indoor sport club includes billiards, chess, caroms and so on. There's a well-equipped music club for some heavy-duty jamming sessions.

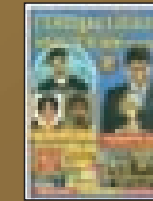
Overall, Sona's ambience is just picture-perfect! Anything and everything a student needs to evolve into a well-rounded professional, you'll find it all here at the Sona campus.

Sona College of Technology
is one of India's
Top Engineering Institutions.



Sona College of Technology has been consistently ranked among the Top engineering institutions in India for the past five years. Over the years, it has grown to become one of the most respected and highly sought after Engineering Colleges in Tamilnadu. Today, Sona has become an outstanding institution for learning and research.

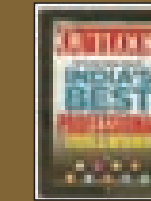
The fact that Sona College of Technology has been figuring in the list of "Top Engineering Institutions in India" published by leading magazines over the past five years, is a testimony to the quality of education that Sona offers.



Among all Engineering Colleges
in Tamilnadu by
"Competition Success Review"



Among Top Private
Engineering Colleges
in Tamilnadu by
"Deccan Chronicle 2012"



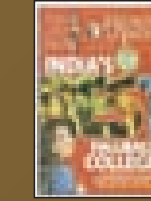
Among Top Private
Engineering Colleges
in Tamilnadu by
"Outlook 2012"



Among Top Private
Engineering Colleges
in Tamilnadu by
"Outlook 2012"



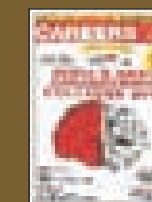
Among Top
Engineering Colleges
in Southindia by
"Silicon India 2012"



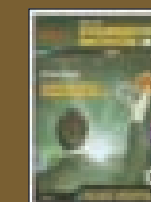
Among Top
Engineering Institutions
in India by
"The Sunday Indian" 2012



India's Best
Engineering Colleges
2012 by careers 360



One Among
Top Engineering Colleges in India
by "Dalal Street", 2012



INFRASTRUCTURAL FACILITIES AT SONA



Well-designed classrooms
Comfortable seating arrangements
Overhead projectors
Computer-based training technologies
Education through multimedia, internet and satellite
State-of-the-art laboratories
Hi-end equipment
Hi-speed computers
Well-equipped workshops
Well-furnished computer centre
Continuing Education Centre
Research and Development Centre
Multimedia Language Learning Centre
Free internet browsing
Four seminar halls
Five auditoria
Well-stocked library
Huge playgrounds
Swimming pool
Indoor sports club with a billiards table
Well-equipped Music club



SONA'S QUALITY POLICY



*Committed to
Quality!*

Sona College of Technology is committed to providing quality education to its students, enabling them to excel in the fields of Science, Engineering, Technology and Management Studies to cater to the changing and challenging needs of society and industry, through the following initiatives

Contributing to the academic standing and overall knowledge development of the students

Maintaining state-of-the-art infrastructure and a congenial learning environment

Enhancing the competence of the faculty to a very high level and making them adopt modern and innovative methods applicable to the teaching-learning process

Inculcating moral and ethical values among the students and staff

Collaborating with industry, other institutions and organisations for mutual benefit

Promoting research and development activities for the growth of the economy

Disseminating technical knowledge in the region through continuing education programmes

Ensuring continual improvement of Quality Management Systems.

ISO 9001 : 2000 CERTIFICATE



Sona College of Technology has been awarded the 9001:2008 Certification from Bureau Veritas Certification(India) private limited on the basis of its commitment to provide quality education. This is a standing testimonial to the institution's efforts to offer world-class technical education to students across the globe. This is a direct result of Sona's credible and comprehensive quality management system to impart quality education in the fields of Engineering, Technology and Management leading to Undergraduate and Postgraduate Degrees and to support the industries by providing consultancy, Testing, Research and Human Resources.



Proven to be the best!

PROGRAMMES OFFERED



**SOAR
HIGH**

BE/BTech degrees full time 4 years



Mechanical Engineering
Electrical and Electronics Engineering
Computer Science and Engineering
Electronics and Communication Engineering
Civil Engineering



Information Technology
Textile Technology (**Fashion Technology**)

Master's Degrees [FULL TIME-2 YEARS]



Computer Science and Engineering
Software Engineering
Communication Systems
VLSI Design
Power Systems Engineering
Power Electronics and Drives
Product Design and Development
Engineering Design
Structural Engineering
Information Technology



Master of Business Administration [Full time-2 years]



Master of Computer Applications [Full time-3 years]

Doctoral Degree [PhD]

Mechanical Engineering
Electrical and Electronics Engineering
Electronics and Communication Engineering
Computer Science and Engineering
Civil Engineering
Textile Technology (**Fashion Technology**)
English
Mathematics
Physics
Chemistry
Management Studies
Computer Applications
Information Technology

School of
Mechanical Engineering



**FAST TRACK TO
A BRIGHT FUTURE!**



School of Mechanical Engineering

Mechanical engineers require a solid foundation in the principles of physics and materials science for analysis, design and manufacture of mechanical systems. They need to have a thorough understanding of concepts like mechanics, kinematics, thermodynamics and energy. At Sona, we provide these and a lot more.

We realize that mechanical engineering is a burgeoning field with promising career opportunities. So, we've designed training materials that ground students in the basics and gently steer them towards complex concepts and applications. The great thing about this department is that students spend a great deal of time in the laboratories and in the workshop, gaining hands-on experience while strengthening their bases.



Programmes

Undergraduate:

BE Mechanical Engineering – 4 years

Postgraduate:

ME – Engineering Design – 2 years

ME – Product Design and Development – 2 years

Doctoral (Ph D)

Unique Features:

- Advanced CAD/CAM lab
- Sophisticated CNC lathe and CNC Wirecut EDM
- Hands-on experience in part-programming and operations
- Focus on Research and Development (R & D)
- Real-time Workshop experience
- Highly-qualified and industry- experienced faculty members including doctorates
- Student-friendly course materials



Infrastructure:

From basic tools of the trade to hi-end systems and complex apparatus-the Mechanical Engineering department has it all. Our laboratories and workshops are very sophisticated and truly state-of-the-line.



Research and Industry-Interaction

The department is recognized as an approved research centre for doing collaborative research with Anna University. Students get the unique opportunity to work on real-time research project. So, they are industry-trained and industry-ready just as they earn their engineering degree. That's amazing, isn't it?

The R&D activities are conducted under the aegis of the Centre for Nano materials and Micro Machining (CNNCMM). The centre aims at developing nano-structured materials and development of micro ECM and micro EDM for micro components.





Career opportunities

The programme enables students to take up careers in a broad spectrum of industries. From IT industries that have a strong mechanical focus, to CAD and CIM driven industrial units, the opportunities for mechanical engineers are endless. A majority of our students get placed in core engineering and IT-allied sectors through campus placements.



Metrology Lab

- Gear Tooth Vernier
- Bore Measurement setup
- Depth Vernier
- Profile Projector
- Toolmakers Microscope
- Pneumatic Comparator
- Mechanical Comparator
- Auto Collimator
- Floating Carriage Micrometer
- Surface Roughness Tester
- Mechanical calibration setup
- Sine Bar & Slip Gauges
- Vernier Calipers & Micrometers
- Dial Gauges
- Bevel Protractor
- Limit Gauges
- Vernier Height Gauge
- Force / Load measurement setup
- Temperature measurement setup
- Displacement measurement setup

Fluid Power Control Lab

- Pneumatic Trainer Kit
- Electro-pneumatic Trainer Kit
- PLC-pneumatic Trainer Kit
- Hydraulic Trainer Kit
- Pneumatic and Hydraulic Trainer Software



CAD/CAM Laboratory

- HP Net Server 600 MHz
- IBM Nodes with 1.7 GHz
- HP Plotters, HP Laser Jets and HP Scanner
- I-DEAS Modeler and Manufacturing
- ANSYS
- CATIA
- NISA Display III with Complete Module
- AutoCAD Mechanical DeskTop
- CNC Lathe & Milling Simulator
- CADEM
- AutoCAD Land Development Desktop
- Pro/E WILDFIRE
- CFD Tutor
- C-MOS Milling & Lathe Simulator
- Mastercam
- Smart Team PDM Software
- Solid Works
- Autodesk Inventor Professional 2008

Thermal Lab

- Computerised IC Engine Test Rig
- Steam Boiler and Turbo Generator Test Rig
- Air Conditioning Test Rig
- Refrigeration Test Rig
- Open Circuit Wind Tunnel (Digitised)
- Two-stage Air Compressor
- Centrifugal Blower
- Test Rigs for IC engines
- Fuel Testing Equipment
- Multi-gas Analyser
- Smoke Meter

Heat Transfer Lab

- Thermal Conductivity Measurement Rig
- Double Pipe Heat Exchanger
- Emissivity Measurement Apparatus
- Stefan-Boltzman's Law Apparatus
- Pin-Fin Apparatus
- Natural Convection Heat Transfer Test Rig
- Forced Convection Heat Transfer Test Rig
- Cooling Tower
- Surface Condenser

Mechatronics Lab

- Hydraulic Simulation Software
- Pneumatic Simulation Software
- Basic Electro-pneumatic Trainer Kit with PLC
- Servo Controller using Closed/Open Loop
- Digital PID Controller Trainer
- Digital PID Controller with DC Motor Speed Control Module
- 8051 Microcontroller Trainer
- Stepper Motor Controller with Motor
- Integrated Process Controller Trainer

Vibration Lab

- Vibration Test Facility
- FFT Vibration Analyser
- Data Actuation System
- Transverse Vibration Test Facility

Dynamics Lab

- Motorised Gyroscope Test Rig
- Universal Governor Apparatus
- Whirling-of-Shaft Test Facility
- CAM Analysis Machine Lathe
- Drill Tool Dynamotor
- Dynamic Balancing Machine
- Kinematics of Universal Joints
- Gear Train Apparatus
- Turn Table Apparatus
- Epicyclic Gear Train
- Speed Reducer Test Appartus
- Balancing of Reciprocating Masses
- Mass Moment of Inertia
- Vibrating Table
- Multi-degree Freedom System

Machine Shop

- Capstart Turret Lathes
- Shaping Machines
- Milling Machines
- Cylindrical and Surface Grinder
- Tool and Cutter Grinder
- Slotting Machines
- Radial Drilling Machine

AA

Academic Achievements

- 1 Gold Medalist
- 26 University Rank holders
- The project work done by our final year students have won several laurels. A project on 'Production of Bio-diesel as an alternate fuel for IC engines' secured the first place in Region III, in an evaluation organized by the Director of Technical Education, Tamilnadu.

Some of the on-going research activities in Mechanical Engineering department are

- Alternate fuel for IC-engine operation
- Investigation on slip behaviour of rolling elements in roller bearings
- Development and analysis of a novel Hybrid Active Suspension System (HASS)
- Analysis of hydrodynamic Journal bearing performance in IC – engines
- Experimental investigation of elastic engine bearing under vertical sinusoidal fluctuating loads
- Design and analysis of Dextrous Robot grippers
- Development of Product Data Management (PDM)
- Investigation on nano-manufacturing
- Experimental analysis on surface Quality of non-ferrous metals under dry turning process
- Design and analysis of nano-actuator applicable for Ultra-high precision devices
- Design and fabrication of flexible robotic manipulator
- On line tool wear monitoring using neural network
- Investigation of fatigue behaviour of surface coated steel
- Studies on the pulse plating of silver for the jewellery industry jewellery industry
- Technique for Synthesis of Nanostructure Materials
- Development and performance analysis of a combined micro EDM and micro ECM setup
- Metal flow analysis in extrusion dies
- Optimisation of extrusion die profile using genetic algorithm



ALUMNI VOICE

I was an ordinary student during my first year, but teachers at SONA brought out the research talents in me and made me a young scientist. I started my first research project by the end of the first year. During my final year, I finished 4 patentable projects, 3 international presentations and won the national young scientist award.

All these achievements were possible only because of the complete support of the management and staff of Sona. This made

me obtain a proud position as an Erasmus Mundus Scholar under the European Union Research programme to do my master's degree in Nanotechnology.



S. Nirmalesh Kumar
Studying Nano Physics
Université Joseph Fourier Grenoble 1
France



TEAM TERASVIN of final year mechanical Engineering students who have won the 1st prize in COMPUTER AIDED ENGINEERING DESIGN, conducted by SAE-SUPRA, which was held at Bhuddh International Circuit, NOIDA, DELHI on September 9th, 2012



**POWER-PACKED
PROGRAMME
FOR AN
ELECTRIFYING
CAREER!**

School of
**Electrical and
Electronics Engineering**



School of **Electrical and Electronics Engineering**

Electrical and Electronics Engineering is a dynamic and very challenging discipline. Growth potential in this arena is truly boundless. From super computers to supersonic jet planes; from global positioning systems to remote sensing equipment, this discipline covers the entire gamut.

At Sona, we first equip the students with the fundamentals of EEE and then, move on to practical systems and applications of knowledge. We ensure that the students gain an in-depth knowledge of engineering concepts and also a profound practical insight into their applications. In short, we empower our students with the right kind of skill-sets to meet the challenges of a competitive workplace.

Programmes:

Undergraduate:

BE Electrical & Electronics Engineering – 4 years

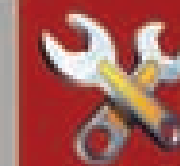
Postgraduate:

ME - Power System Engineering – 2 years

ME – Power Electronics and Drives – 2 years

Doctoral (Ph D)

- Highly-qualified and industry- experienced faculty members including doctorates
- Seminars and presentations in areas like Nanotechnology, Special electrical machines high voltage testing, Power electronics based drive applications
- Focus on Research and Development; two in-house research centres – SonaSPEED and SonaPERT
- High level industry interaction
- Real-time training experience
- Students are encouraged to present technical papers in latest technologies
- Internships and training programmes in various fields of Electrical and Electronics Engineering.
- Student-friendly course materials



Infrastructure:

The department has five advanced laboratories that house the very best of electronic and electrical technology under the sun. Students spend a lot of time in the laboratories learning the nitty-gritty of the trade. So, they are indeed equipped to deliver value from day one.



Research and Industry-Interaction:

At Sona, the learning goes beyond books and right into the real world scenario. Sona's unique R&D centres provide students with an opportunity to work in livewire industry projects. It's an undeniable advantage for our students who are geared up for the challenges of the real world.

Sona Special Power Electronics and Electric Drives (Sona SPEED)

This cell specializes in the design and development of special electric motors, drives and principle demo models for specific industries. In fact, Sona SPEED has designed and developed prototypes of brushless DC torque motors as a special project for Vikram Sarabhai Space Centre and these have gone into ISRO's recent space missions. The hands-on experience gained by our students is indeed colossal.

Sona Electric Power Engineering Research and Testing Centre (Sona PERT)

Sona PERT provides innovative research, testing, consultancy and training services in the field of High Voltage and Electric Power Engineering. It seeks to provide quality innovations to electrical utilities and industries.

Completed R & D projects:

Sona Speed

- Design and development of Slotless Brushless DC Motor for Meghatropiques Space Mechanism for ISRO Inertial Systems Unit
- Design and development of C25 Quadruplex BLDC torque motor for EGC Actuator GSLV MK-III: Vikram Sarabhai Space Center
- Development of Limited Angle Torque Motor for Control Moment Gyro : ISRO Inertial Systems unit
- Refurbishment of 7.5 KW BLDC Motor for National Institute of Ocean Technology, DRDO
- Development of Aerospace demo models for space museums for VSSC, IISU, SHAR, ISAC and ISRO
- Development of 1 KW BLDC generator for roof top application for Indian Institute of Innovative Technologies for Societal Applications (iiTsa)

Sona PERT

- High Power CD Power Supply - National Institute of Ocean Technology (NIOT), Chennai
- CT Caliber - Megawin switchgear Pvt. Ltd., Salem
- PT Caliber - Megawin switchgear Pvt. Ltd., Salem



Academic Achievements

- 6 Gold medalists
- 90 University Rank holders



DC Machines Lab :

- DC shunt
- Series and Compound Motors with belt load arrangements
- Motor – Generator sets
- Resistive Loads
- Rectifiers (36 V, 230 V)

AC Machines Lab :

- Synchronous Motors
- Alternators (salient & non salient) Induction Motors (1 phase & 3 phase),
- Transformers (1 phase, 3 phase),
- Auto transformers (1 phase & 3 phase)
- Linear Induction Motor
- Winding Study Motors
- Sectional models of starters.
- Relay testing kit.

Control & Instrumentation Lab :

- PID Controllers
- PLCs
- DC Position Servo Trainer
- AC Servomotor
- Stepper Motor
- Magnetic Amplifier
- Synchros
- AC & DC Bridges
- Transducers
- Lag/Lead Network

Microprocessor Lab & Digital IC Lab :

- 8085 Micro Controller Kits
- 8086 Micro Controller Kits
- Linear and Digital ICs
- Trainer Kits
- DAC Card
- Interfacing Cards

Power Electronics & Drives Lab :

- Converter Kits
- Triggering Modules (R, R C & UJT)
- Chopper Kits
- Cyclo-converter Modules
- Phase Induction Motor Drive Control using IGBT Chopper
- Microprocessor based Firing Modules
- Phase converter fed DC motor control

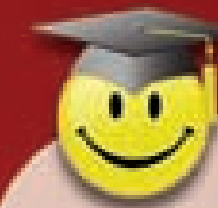
Simulation Lab :

- One server and 75 nodes
- Major software include
- ETAP 4.7.0
- PSCAD 3.0.8
- ORCAD version 9.0
- AU Power Lab 1.0
- MATLAB R 2009 b
- PSPICE

In-house Power House

An H.T. supply with a maximum demand of 400 kVA is availed from Tamilnadu Electricity Board. Two 500 kVA, 22 kV / 433 V and three-phase transformers with OLTC are installed in the campus to supply electricity throughout the college.

Three diesel generator sets, each with a capacity of 125 kVA and 380 kVA are available for continuous alternate power supply.



ALUMNIVOICE

I am E. Krithiga B.E (EEE) of batch 2004-2008. The guidance of Shri. C. Easwarlal (H.O.D) and all other faculty members imbued a lot of confidence in me. The freedom given to practice the lab experiments equipped me with practical knowledge and to correlate with theoretical knowledge too. This enabled me to achieve the GOLD MEDAL. The commendable placement training given by the management helped me get placed in both Cognizant Technology Solutions and Bharat Heavy Electricals Limited.



E. Krithiga
Product Engineer, BHEL, Chennai

School of
**Electronics and
Communication Engineering**

**SPEAKING
THE
LANGUAGE
OF
ELECTRONICS
LOUD
AND
CLEAR!**



School of Electronics and Communication Engineering

The Electronics and Communication Engineering (ECE) department at Sona is considered one among the very best within Anna University precincts. The courses offered under the aegis of this department are constantly evolved to match the exacting standards of the industry. Our ECE students are the first choice among employers, simply because they have been trained to deliver value from day one.

The focus here is on practical knowledge that is gained through intensive workshop sessions and extensive R&D applications. This definitely gives our students that winning edge when it comes to careers and placements.



Programmes:

Undergraduate:

BE Electronics and Communication Engineering – 4 years

Postgraduate:

ME Communication Systems – 2 years
ME VLSI Design – 2 years

Doctoral (Ph D)

Unique Features:

- Industry-specific curriculum
- Student-friendly course materials
- Highly-qualified, industry-trained faculty
- Full-fledged laboratory setup
- Focus on Research and Development
- Industry internship
- Technical paper presentations and seminars



Infrastructure

The Department aims at training the students in both analog and digital transmission and reception of information. The students learn about various modulation systems, processing strategies, coding techniques and dissemination of data worldwide via networks using advanced protocols. The curriculum emphasises on design, developing small applications of concepts via systematic project based learning and enriches the student knowledge base. It motivates the students to do better, enables them to be industry ready and provides the necessary impetus to kick start their career.



Research and Industry-Interaction

Sona SIPRO is a community of engineers and researchers who share an interest to join in the evolution of Signal and Image processing research domains to various social problems. Sona SIPRO is a recognized Research Centre for pursuing Doctoral Degree Programs.

Our endeavour is to develop expertise and capabilities in the general area of signal and image processing which can be directed towards a wide range of applications, including agriculture, textiles and other applications.

It is also proposed to develop collaborative and competitive proposals, with distinctive expertise of faculty members for creating a competitive and collaborative research environment with substantially more funding.



Academic Achievements

- 40 University Rank holders
- Three student projects recognised for the National INTEL Design Contest
- Project titled "Green Vehicle" was recognised by DST
- Project titled "Digitization of Hand written Classical Tamil Characters using Image Processing Techniques" funded by Tamilnadu State Council for Science and Technology has been acclaimed as a unique project
- Other recognised projects by students: Fuel Indicator, E-cultivation, Weed detection using multi resolution analysis, Hybrid Solar Wind Generator, Power Generation unit in Speed Breaker



Equipment:

- Function Generators
- Cathode ray Oscilloscopes
- Audio Oscillator with Counter
- 150 MHz RF Signal Generator
- Various Analog /Digital Study and Trainer Kits
- Fibre Optic Trainer Kit
- Digital Storage Oscilloscope with 1.0 GHz sampling rate
- Network analyzer – E5061A-Agilent Technologies (300 kHz ~ 1.5 GHz)
- Spectrum Analyzer – E4411B-Agilent Technologies (9 kHz ~ 1.5 GHz)
- Vector Signal Generator – E4438C- Agilent Technologies (250 kHz ~ 1 GHz)
- Data Acquisition/Switch unit - E54790A-Agilent Technologies
- EPM Series Power Meter-E4418B-Agilent Technologies
- Microwave anechoic chamber – Falcon (4 ft * 4 ft –1 Pair)

Electronics Laboratory

Students design and test their analog/digital/mixed signals and digital circuits. A team of expert faculty provide the students with required guidance. Students undertake projects in teams to get a better grasp of theoretical concepts in a practical setting.

- Cathode Ray Oscilloscope
- Function Generator
- Dual Power Supplies
- DMM with RS232
- Wide Range of Analog Meters
- LCR Meters
- Various Types of Active and Passive Devices

Microprocessor Laboratory

The Microprocessor lab helps the students enhance their knowledge about various processors such as 8085, 8086, microcontrollers, Pentium processors and also the interfacing of these processors with other equipment.

Equipment:

- Basic Processors (8086), Controllers (8051, 68 CH11, 16 F Series and ARM Processors), including EDA Tools like Keil, Raid, MplabIDE
- EPROM Programmer/Eraser
- Interfacing Cards for Process applications
- 8031 Micro Controller kits with PC Interface
- PIC Processor

Communication Laboratory

Students enhance their knowledge in Analog/Digital Modulation Techniques and study the performance of these communication systems under Transmission and Reception scenario.

Equipment:

- Analog and Digital Modulation Test Benches
- CROs, DSOs and MSOs
- Network Analyser
- Spectrum Analyser
- PC based Antenna Measurement Systems



Career Prospects

While our curriculum aims at covering broader spectrum of Current topics in ECE, it also offers scope for possessing in-depth knowledge in specialization areas such as Wireless Communication, Networking, Signal Processing, Medical Instrumentation and Embedded system. Thus enabling our students to shape their career towards setting placement in Core Industries of ECE.

Microwave Laboratory

Students are exposed to the microwave active devices like klystron, gunn diode and passive devices isolator, circulator, slide screw tuner, magic tee, directional coupler, and horn antenna

Equipment

- Klystron Bench
- Gunn Bench
- Various Passive Components
- VSWR Meter
- Vector Network Analyser and Terminations

Optical Communications Laboratory

Students perform experiments to study the characteristics of optical sources (LED & LD) and optical detectors (LD & APD) and optical fibers. The laboratory compliments the optical communications course that's a part of the curriculum

Equipment and Software:

- Optical Fibre Trainer Kits
- Optical Source (LED & LD)
- Optical detector (PD & APD)
- Power Meter
- OTDR Building Block
- Video link with Transmitter
- Glass & Plastic Fibre
- Connectorization and Splicing kits
- Single Mode Fibre Characteristics Study Setup, add on to existing OFS
- Optisim Software

DSP/VLSI Laboratory

Students are given hands-on training in software tools like Matlab, Modelsim, Leonardo Spectrum, Xilinx, HDL Designer Pro and Cadence.

Equipment and Software:

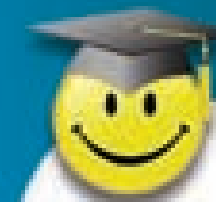
- Texas Instruments DSP Kits/TMS320C31/50/5416/6711
- Analog Devices DSP Kits ADSP2181
- Matlab Ver 6.5/ R13 with various tool boxes
- IBM PCs PIV/17 inch Monitors
- MATLAB 7.5 with various tool boxes
- VLSI
- HARDWARE TOOLS
- FPGA Base station
- Xilinx/Altera FPGA Adapter Board
- Prototype Boards
- IBM PCs PIV/17 inch Monitors
- Quartus 7.2 version
- SOFTWARE TOOLS
- FPGA advantage Modelsim/ Leonardo spectrum
- Xilinx 7.1

Linear Integrated Circuits & Simulation Laboratory

Students test design and test circuits here. A team of expert faculty provide the students with required guidance.

Equipment and Software:

- Cathode Ray Oscilloscope
- Function Generator
- Dual Power Supplies
- Digital Multimeter
- Intelli Suite Software



ALUMNIVOICE

Sona College of Technology is one of the best institutions in imparting training and learning to students. The management works for the betterment of students. Our college gives various opportunities for the students to expose their talents. The infrastructure and facilities make it an ideal institution for learning.

My days in my Department were golden days for me. The knowledge of the staff and the support which they provided during the days were the reasons that made me come up in my life.



J. Leo Marshall
 Engineer (Aero)
 Flight Test Centre
 Aircraft Research & Design Centre
 Hindustan Aeronautics Limited.



School of
Computer Science and Engineering



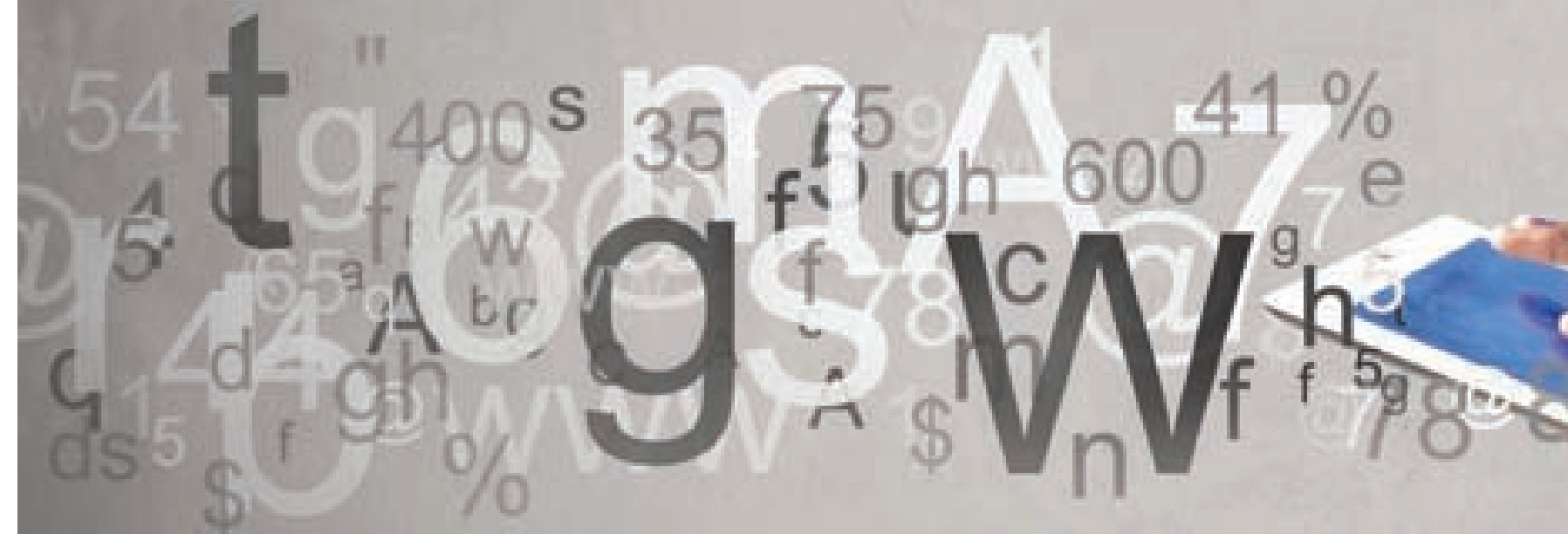
**GET SET FOR A
SKYROCKETING
IT CAREER!**

School of Computer Science and Engineering

The Computer Science and Engineering (CSE) department seeks to create smart techies for today's internet-driven workspace. The most wonderful thing about this department is that it is totally in tune with the swiftly changing demands of the industry. Technology changes at the rate of thought, quite literally. What was new yesterday, is already stale today. The CSE department constantly interacts with the IT industry, continuously updating and seamlessly blending its curriculum with industry specifications.

So, when the student finally walks out after four years of college, he is ready to jump into a career and deliver from the word go!

In this information age, computers rule the world. And those, who learn to effectively utilize the power of computers can indeed reign in the competitive job market.





Programmes

Undergraduate:

BE – Computer Science and Engineering

Postgraduate:

ME Computer Science and Engineering
ME Software Engineering
MS Computer Engineering (Twinning program in collaboration with Syracuse University, USA)

Doctoral (PhD)

Unique Features

- Highly qualified, competent faculty members
- Industrial visits
- Internship in IT companies
- Industry-specific curriculum
- Students are allowed to utilize computer labs from 9.00 a.m. to 8.00 p.m. on all working days
- Seminars, symposia and paper presentations on a regular basis



Infrastructure

The main computer centre has a whopping 150 nodes with state-of-the-art systems and software facilities.

Laboratories

- Object Oriented Programming Lab
- Data Structures Lab
- System Software Lab
- Operating Systems Lab
- Visual Programming Lab
- Networks Lab
- DBMS Lab
- Graphics and Multimedia Lab
- Compiler Design Lab
- Case Tools Lab
- Internet Programming Lab

Computing Facilities

Hardware:

- Core 2 duo, Core 2 quad and Dual Core systems
- High end servers like Blade server and storage array
- Apple iMac all in one desktop computer

Software:

- Windows 7 / VISTA / XP / 2000
- Red Hat EL 5/4 Fedora 13/12
- Office automation packages
- RDBMS like Oracle 10g std/8i SQL server 2008/2005/2000 & IBM DB2
- Languages: Borland C/ C++, JDK1.6, COBOL & Turbo Pascal

Packages:

- Multimedia packages like Adobe Director 11/MX
- Coral Draw 12.0 graphics suite
- Visual Prolog, IBM WSAD/WAS

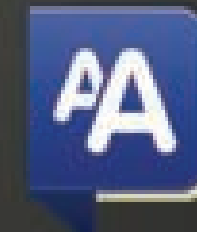
Advanced Software Packages:

- Hiclass Multimedia Educational Software
- Rational Suite Enterprise Edition
- Pramati Application Server
- Crystal Reports 8.5 Developer
- SPSS

16 Mbps leased line Internet accessibility

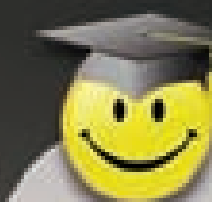
Career Prospects

Computer engineers are readily absorbed by the IT industry where they are involved in core activities like software development, programming, testing and maintenance. A majority of our CSE students are well-placed in top Indian and International IT companies. From Infosys to SAP; from CTS to TCS, our students adorn the campuses of several IT giants.



Academic Achievements

- 47 University rank holders
- Four gold medalists



ALUMNIVOICE

One of the best equipped departments with excellent academic staff. There is always encouragement for untapped skills/hidden talents within the department. There is equal opportunity to sharpen and shape our leadership skills with complete freedom. I feel that there is no other perfect stage than this for experimenting before we step out to face the real world challenges. So make the best use of every resource available and certainly create an impression and leave your footprints that will last for decades.



Prem Gautham B.E., M.S.,
Business Analyst
Wipro Technologies, Chennai

SCHOOL OF
INFORMATION TECHNOLOGY

GO IT! GO FOR A GLOBAL CAREER!



School of Information Technology

Information Technology has grown by leaps and bounds in the last decade. And the demand for the Indian software engineer has grown exponentially in the last few years. India is an IT superpower and most multinational companies have software development and testing centres across the length and breadth of our country.

In this scenario, we have designed a comprehensive Information Technology programme that hones our students in the basics and takes them boldly forward into the complexities that mark the bit and byte world. Industry training is imparted to students. Our Information Technology programme lays a strong emphasis on the practical applications of theoretical concepts.

Laboratory:

- Data structures lab
- Object Oriented programming lab
- Database management systems lab
- Computer networks lab
- Design and analysis of algorithms lab
- Java programming lab
- Operating systems lab
- Compiler design lab
- Open source systems lab
- Case tools and software testing lab
- Web technology lab
- Mobile applications development lab





Academic Achievements

- 29 University Rank holders
- Excellent performance of students in competitive examinations
- Good placement record

Programmes

Undergraduate:

B.Tech Information Technology - Four years

Postgraduate:

M.Tech Information Technology - Two years

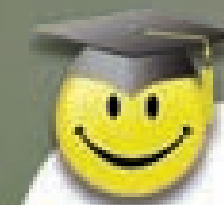
Doctoral (Ph D)

Unique Features

- Industry oriented projects
- Strong R&D interactions with industries like Checktronic, Yahoo, IBM, IGCAR
- Excellent alumni interaction and contribution
- Well equipped labs with excellent ambience
- Departmental e-magazine – www.infozyn.com
- Dedicated faculty with good academic background
- Industrial consultancy
- Recognised student ambassadors for Google and Microsoft
- Programming Club - www.sproc.tk.in

Career Prospects

Software engineers are one of the highest paid employees in the country today. A degree in Information Technology is indeed a gateway to a prosperous career. Techies rule the world in terms of job offers, a lucrative remuneration and a comfortable lifestyle. Our IT students are placed in top software companies across the globe.



ALUMNIVOICE

"My almatmater -Sona - has always been an inspiration to me. The "Explore all options" culture that has been nourished in the college has stuck to my head to date. Though it's been a decade since I've graduated, I closely monitor every milestone that my college passes and it fills me with boundless excitement. It's heartful to learn that the torch of knowledge has been successfully carried by all my juniors. Warm wishes for each one. In the light of the recent developments and opportunities available, I am anxiously waiting for the day when Sona College of Technology would put its own satellite in space."



PL. Ashok Kumar
System Design Engineer
Microsoft Corporation
10830 Slater Ave NE Unit 26,
Kirkland, WA 98033

School of
Civil Engineering

**BUILDING
STRONG
FOUNDATIONS**



School of Civil Engineering

Civil engineering is not merely a bricks and mortar field but forms the building blocks of a country's infrastructural growth and development. The Civil Engineering department aims at developing enterprising engineers who are geared towards building a stronger India.

The department boasts of state-of-the-art laboratory facilities and focus on practical training. To keep up with the times, the department offers training programmes in emerging areas like Remote Sensing, GIS, GPS, Geo-Technical Engineering and so on.

Programmes

Undergraduate:

BE Civil Engineering - 4 years

Postgraduate:

ME Structural Engineering - 2 years

Doctoral (Ph D)

Unique features

- Excellent research work in "Special Concretes"
- Opportunities for students to learn software in various specialisations
- On campus training on "Innovative Construction Materials and Construction Practices" for students
- Guest lectures by renowned industry experts
- Encouragement to students for presenting papers in conferences/seminars
- Workshops conducted in association with industries



Infrastructure

From basic tools of the trade to high-end systems and complex apparatus, the Civil Engineering department has it all. Our laboratory and workshops are very sophisticated and truly state-of-the-line.



Survey lab

- Total Stations
- Theodolites
- Digital Planimeter
- Auto levels

Concrete lab

- Slump Cone Apparatus
- Flow Table
- Compaction Factor Test Apparatus
- Vee Bee Consistometer
- Vicat Apparatus
- Aggregate Crushing / Impact Value Apparatus
- Sieve shakers
- Accelerating Curing tank
- Los Angeles abrasion testing machine
- Concrete Permeability apparatus
- Rebound hammer

Soil Mechanics Lab

- Direct Shear Test Apparatus
- Three gang Consolidation Test Device
- Triaxial Shear Test Apparatus
- California bearing ratio test apparatus
- Universal permeameter
- Dynamic Cone penetrometer
- Automatic Cone penetrometer

Transportation Lab

- Benkelman Beam Digital Dial Gauge
- Portable wheel weigh bridge
- Bump Integrator
- Speedy Moisture meter
- Ductility tester
- Viscosity tester
- Penetrometer

Hydraulics Lab

- Meta Centric Height Apparatus
- Venturimeter Test Rig
- Orifice Meter Test Rig
- Francis Turbine Test Rig
- Pelton Wheel Test Rig
- Kaplan Turbine Test Rig
- Different Pumps Test Rigs.

Strength of Materials Lab

- Pendulum Impact Testing Machine
- Brinell, Rockwell and Vickers Hardness Testing M/c
- Universal Testing Machine of 100T Capacity
- Digital Compression Testing Machine
- Tensile Tester
- Torsion Testing Machine
- Fatigue Testing Machine
- Load Cell



Career Prospects

Civil Engineers never, ever go out of demand because they cater to a nation's infrastructural growth. The industry's demand for quality civil engineers is increasing day-by-day. Our students have been absorbed by top-end construction companies across the country. Several of our civil engineering students have also made a smooth cross-over into IT and related industries, where they shine brilliantly.

Environmental Engineering Lab

- pH meter
- Turbidity meter
- Conductivity meter
- BOD incubator
- Muffle furnace
- Chlorine comparator
- Calorimeter
- Kjeldane apparatus
- COD apparatus
- Jar test apparatus
- Hot air oven

Software

- STAAD. PRO
- Tekla structures
- ETABS
- NISA CIVIL
- ESRGSR
- AUTOCAD
- GIS – ARC MAP
- Auto plotter



Academic Achievements

- 1 gold medalist
- 12 University rank holders
- Active ICI-Students' Chapter



ALUMNIVOICE

Our laboratories are equipped with state-of-the-art facilities to encourage students to take up research even at UG level. The fact that I received the 'Best Outgoing Student' Award stands testimony to the support and motivation that I obtained from my faculty members. Also, I got placed in "Essar Group", a multinational conglomerate in the sectors of Projects, Oil & Gas, Steel, Power, Logistics, Communications and Minerals. But for such faculty, laboratory facilities, space for extra-curricular and co-curricular activities, it would have been difficult for me to give a fitting reply for those who discouraged me when I chose Civil Engineering.



L. Rajalakshmi
 Manager, Essar Projects (India) Ltd., Gujarat

School of
**Garment and
Fashion Technology**

**FASHIONING
A PROMISING
FUTURE!**



School of Garment and Fashion Technology

The fashion industry never, ever goes out of style, quite literally! It's a multi-billion dollar industry, one that caters to man's basic need for clothing although in a very chic way. Fashion technology is a wonderful programme for students who want to unleash their creativity while sharpening their business edge. Our fashion technology programme is truly world-class – in terms of curriculum, facilities and course structure. The programme aims to create sparkling careers in fashion. Training in the real world gears up our students for the challenges of the vibrant global fashion industry.

Mission of the School

"We provide students with holistic education and training to bring out industry-ready graduates who exactly meet the technical manpower needs of the garment industry and business.



Infrastructure:

The infrastructure in the department encompasses all of the equipment and machinery required to provide hands-on training to students to get them industry-ready



Laboratory:

- Pattern making grading lab
- Garment construction lab
- Computer-Aided textile and garment design lab
- Chemical processing of textile and apparel lab
- Textile testing and quality control lab
- Apparel machinery lab



Academic Achievements

- 1 Gold Medalist
- 2 University Rank holders
- Best FT School with regard to the number of Anna University ranks since 2009.
- Students excel in co-curricular activities winning overall trophy in inter-college competitions.

Programmes:

Undergraduate:

B Tech Textile Technology-4 Years

Doctoral (Ph D)

Unique Features:

- Strategic planning and systematic implementation
- Industry-focused curriculum
- Modern labs with industry-grade machinery and equipment
- International class fabric and garment CAD software
- Exclusive Learning Resources Centre
- Qualified faculty with Garment-Industry experience
- Industrial training for students
- Student project work with publication potential
- Activity-filled student symposia
- Formal soft skills training
- Inculcating an environment-friendly attitude and good values in students

Outreach Activities

- Special activities centre focusing on
 - Interaction with industry
 - R&D
 - Continuing education courses for the community, placement etc.
- Tie-up with corporate houses for rural women training in garment unit shop floor skills, MoUs with Salem Steel Plant, JSW Salem etc
- Research publications by the FT faculty in leading international refereed journals with good impact factor





Career prospects:

India is now a major garment outsourcing hub for global giants like Walmart, Kmart, JCPenny, Dillards, and so on. So, Indian fashion technology professionals are much sought-after in today's global market place. Our fashion technology students have carved a niche for themselves as Garment Production Personnel, Quality Control Officers, Fabric Co-ordinators, Merchandisers, Fashion Designers and so on.

Placement Rate

- The school has a winning record of 100% placement for the last three years since 2009
- Our FT students are also being sought after by leading IT companies - this is yet another career avenue for them.



ALUMNI VOICE

Right now I am working with a Dubai based MNC called Fine Fair Retail - got 18 apparel stores in middle east catering to Kids, Men's and Women's category and very soon we are coming up with retail outlets in India. I have joined in this company as a 'Regional Manager - Retail Buyer ' for Global operations.

My Message

In the upcoming market "apparel retail " plays a vital role in India. A graduate from Sona getting entry in apparel retail itself shows the value of the institute. I am very proud to say that Sona is considered a top institute from where fashion graduates are recruited next to NIFT, NID, IIM, IIT.



SHARFUDEEN
Regional Manager-
Retail Buyer Fine Fair (I) Pvt. Ltd
Bangaluru

Sona School of
Management

MANAGING
FUTURE.



Founded in 1998, Sona School of Management has churned out thousands of managers, entrepreneurs and business leaders who are bravely shaping India's destiny. The Management school is a powerhouse of business knowledge and is committed to creating dynamic managers who can boldly climb the corporate ladder.





From advertising to marketing to sales and finance, MBAs can find a home, anywhere and everywhere. Our MBA programme gives our students an opportunity to specialize in any area of interest and move forward from there. Several corporate giants, top MNCs and high-end retailers flock to Sona to recruit their future Managers and corporate trendsetters.



Career Prospects

At Sona School of Management students are cherished with the values of performance orientation and commitment to the responsibilities rather than mere compliance. To assist students fit in the Global Corporate Culture, the Institute lays special emphasis on personality grooming through presentations, public speaking, mock interviews, aptitude tests and industry interactions. This helps the students to develop capacity for analysis and judgment, ability to relate to managerial problems and draw upon their own resources for better understanding and meaningful action. Students therefore are groomed to join the industry not as a mere Job earner, but to influence its practices, and in the long run become an active participant in reshaping the nation's destiny. To facilitate the process, the institute provides for a mentoring programme and also organises a range of activities throughout the year.

Programme:

Master of Business Administration (MBA) – 2 years

Infrastructure:

- Aesthetically-designed campus
- State-of-the-art academic complex
- Air-conditioned, hi-end lecture halls
- Well-furnished auditorium
- Computer labs
- Comprehensive library
 - Houses books and management journals of national and international repute.
 - Fully digitalized for easy access
 - Subscribes to EBSCO, which allows students to access online national and international journals.
 - Computers with high speed internet within library
 - Access to CMIE database
 - Access to SPSS software for research work
 - Video cassettes, CDs and DVDs pertaining to management

Foreign Language Learning Centre

Today's management professional must be a global Indian. The student must be conversant in English and a few other languages as well. The Foreign Languages Learning Centre was created to hone the communication skills of students. The lab is equipped with audio, video, multimedia facilities, sophisticated software and projection systems that train students to speak and express themselves better.

Unique Features

- Eminent professors with a range of teaching, research and industrial experience
- Livewire classroom sessions
- Continuous industry-interaction
- Activity Based Learning modules for a hands-on learning experience
- Internships in corporate sector
- Symposia and conferences on management issues
- Interactive sessions with corporate heads and practicing managers
- Add-on courses like AMFI, IRDA, Retail Management by RAI and Six Sigma



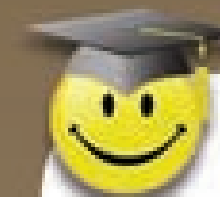
Academic Achievements
·16 University rank holders

Director's Voice...

At Sona, we create the leaders and managers of tomorrow. The Sona School of Management is ranked high among the top 100 business schools in the country. That's enough proof to the quality of management education at Sona.

At Sona, we don't go by the books alone. Students are trained to think and act like true-blue management professionals in an industry-like setting. We sharpen their business acumen even as we polish their personality and presentation styles through extensive soft skills. In short, we get them ready for the rough and tumble of the corporate roller coaster.

Dr. Lathakrishnan



ALUMNI VOICE

Sona has taught me professionalism. Excellent faculty, extraordinary contacts and friendly relationship with the management are my returns from Sona. In a nut shell "I adore Sona."

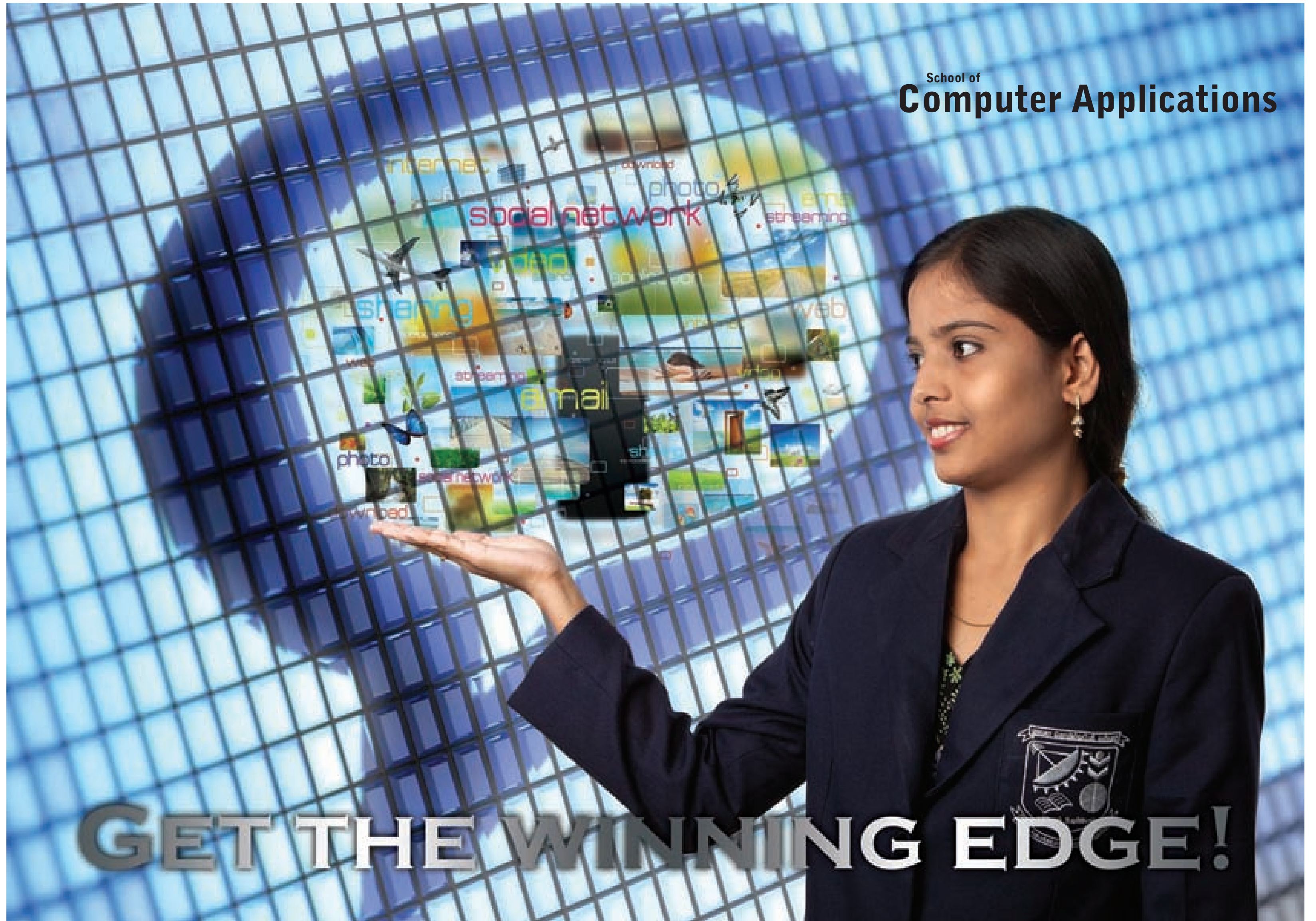
Sona has groomed me in areas like obedience, punctuality, dedication, ethics, etc., which in turn helped me excel in my professional as well as my personal life.



Prabhakar Sidhurajan
Executive
Business Partner,
People and culture,
India / Asia Pacific

School of
Computer Applications

GET THE WINNING EDGE!



School of
Computer Applications

The School of Computer Applications aims at imparting industry-specific knowledge in order to get our students ready for the competitive IT arena. Our computer applications department leans a lot less towards a classroom environment and more towards an industry-style milieu. Effective industry-institute interaction is achieved through seminars, workshops and guest lectures. This gives students a chance to understand the trends and techniques in the current IT scenario.

Computer Laboratory

- Software Development Lab
- Multimedia Lab
- Internet & Programming Lab
- Computer Graphics Lab
- DBMS Lab





Academic Achievements
 ·26 University Rank holders

Career Prospects
 The IT world is an oyster for the successful MCA degree holders. Our students have gained entry into several top-level national and international software development and testing companies. They are the first choice for many IT companies. 95% of our students are placed through campus recruitment drives, while the rest pursue higher education with great enthusiasm.

Programme:
 Master of Computer Applications (MCA) – 3 years

Infrastructure:
 180 high-end systems with wi-fi connections.

- Unique Features**
- Experienced faculty of good caliber with ample industry experience
 - Interactive sessions with experts from the IT industry
 - State-of-the-art teaching resources
 - Well-equipped laboratories
 - Comprehensive library
 - Seminars and paper presentations at regular intervals
 - Focus on research

Research and Consultancy:
 The department is recognized as a Research Centre by Anna University.

- Research in Cryptography and Stegnography
- Centre for Data Security using Steg Bio metric Systems

Research Activities by Faculty
 At Sona, the teachers learn, research, seek answers and then impart them to students. Our faculty members are very enthusiastic about research. They are involved in several research activities and have published papers in reputed national and international journals. They have also participated in various national and international conferences and presented research papers.

The Centre seeks to inculcate 'Best Industry Practices in Application Development and also focuses on application-based research. The centre addresses technical questions and solutions from placement perspective. The Centre gives students a chance to work on mini projects and undertake online certification programmes.

Director's Voice

Sona School of Computer Applications aims at giving students the right set of skill-sets to survive and succeed in the competitive IT market. The great thing about our MCA programme is the emphasis on practicals and research. Yes... research is really where our heart is! We make sure our students explore and find answers on their own, while learning new applications of computer technology. No wonder, we are recognized as a Research Centre by Anna University. This kind of comprehensive training gives our students an unbeatable edge in the real world. And that's what sets Sona and its students apart from the rest.

Dr. G. M. Kadhar Nawaz,
 Director
 School of Computer Applications



ALUMNIVOICE

If at all I am considered a leader with good oratorical and listening skills, it is because of Sona. I have learned many good things from my second home. Sona is not just a college, it is a university with knowledgeable and scholarly faculty members.

Good faculties, good infrastructure, Professional behaviour and ethics raise even an ordinary student to great standards. Sona's positive energy and wavelength enthuse spirit in every student who believes in Sona and steps in. The same has made my life successful, pleasant and colourful.



P. Akshaya Kumar
 Software Analyst,
 Cognizant Technologies Pvt Limited,
 Coimbatore



UNRAVELLING THE MAGIC OF NUMBERS!

M

athematics is the core around which engineering principles and applications are built. So, the engineering student must have an in-depth understanding of complex mathematical concepts. The Mathematics department at Sona seeks to provide a strong foundation for the engineers of tomorrow. The department boasts of well-experienced professors who create an ardent interest in mathematics among students.

The emphasis here is on the application of mathematical theories from the engineering perspective. Students gain deep insights into mathematics which holds them in good stead throughout their career.

Unique features:

- Well-qualified faculty members
- Focus on core areas like
 - Fluid Mechanics
 - Rational Approximation
 - Elasticity
 - Operations Research
 - Engineering-specific course structure
- Focus on practical application of theoretical concepts
- Mathematics lab with software for self evaluation of students' mathematical skills

AlumniVoice

The sharp focus of the Department of Mathematics of our college is on offering quality education and motivating students. The teaching methodology extends well beyond the theoretical realms into the modern statistics lab. The dedicated faculty members take the young minds to the pinnacle of success whereby budding Ramanujams and Sakunthaladevis are moulded to create a promising history for Sona.



Agila Govindaraju
Principal Member Technical Staff
Oracle India Pvt Ltd.

School of Sciences

STRENGTHENING THE BASICS!

Get the basics right. Get going. That's the way we see it. At Sona, we make sure we train our students in the basics of science even as they get into the complexities of engineering. We seek to imbibe a scientific bent of mind among students, so that, they can go forth and make an impressive mark in their chosen area of expertise.

The department of sciences has three wings:

- Physics
- Chemistry
- Computer Basics

Infrastructure:

Physics laboratory:

- Ultrasonic interferometer
- Constant temperature bath
- Oscilloscope
- Laser kits
- Telescope

Chemistry laboratory:

- UV-visible Spectrophotometer
- NIR Food Analyser
- Furnaces
- Incubator
- Digital Moisture balance
- Chroma meter
- Digital pH meter
- Digital conductivity meter
- Digital Potentiometer

Alumni Voice

The Department of Science of our College is a knowledge hub for the young and fresh minds. State-of-the-art laboratory for effective practical works serves as a cradle for innovations. The Curricula cover a wide range of syllabus that define the latest technologies applied in industries. We are motivated to do research in various aspects of Nanoscience and Technology with excellent research centres established in this department.



N. Kesavan
Senior Manager
Ashok Leyland John Deere Construction
Equipment Company Pvt Ltd



School of Humanities and Languages

Communication is the key to surviving and succeeding in today's global workplace. We, at Sona, realise this above all. The Humanities and Languages department equips students with good communication skills and strong interpersonal skills, so that they turn out as well-rounded individuals.

Infrastructure:

Sona Language Learning Centre (SLLC):

The language lab trains students in the semantics, phonetics and other techniques that enable students to express themselves really well. The lab uses several audio-visual tools to imbibe positive language experiences among students.

The multimedia broadcasting software, for instance, makes language learning innovative, interactive and interesting. The lab also has audio-visual aids and study materials for BEC, IELTS, GRE and TOEFL examinations.

Equipment:

- Lenova Systems
- Windows advanced 2000 server
- Globarena Educational Software
- Hi-class broadcasting software

SONA FLAIR (Foreign Language Instruction and Research Centre)

This R and D centre of the Humanities and Languages department aims at training the students in language skills. The centre also offers consultancy services to educational institutions for establishment of multimedia language labs.



Alumni Voice

One of the richest and most innovative learning resources in Sona is its e-learning lab. The various accessories of the learning centre and the rigorous training by our teachers to enhance our language skills lay a strong foundation for our communicative ability. We are also provided with training in other foreign languages like French, German, Japanese, Spanish, etc. which widens our expertise in various languages. Sona's e-lab increases the employability of students and turns them into multifaceted personalities.



Maya Chidambaram
Associate-Projects,
Cognizant Technology
Solutions, Chennai



Library

The library at Sona stands tall, glittering as the crown jewel, amidst the splendor that is Sona's architecture. It's really a vast, spacious building—a treasure trove of knowledge set in a serene environment.

The library has three parts:

Main library

School of Management library

School of Computer applications library

The library houses a huge collection of text books and reference books pertaining to science, engineering, technology, humanities, social sciences and management. The library maintains a separate collection of reference books, back volumes of journals, technical reports, dissertations etc. The library also has an impressive audio-visual collection of video cassettes, CDs, DVDs etc.

The library uses the Autolib OPAC (Online Public Access Catalogue), wherein users can search the Library Online Catalogue by author's name, title, subject, and keywords through the campus LAN.



**DISCOVER
A TREASURE TROVE
OF KNOWLEDGE...**



Student Voice

The best part of my college is the library, I would say-spacious, well ventilated and perfect environment for a focussed study.

Our library not only emphasises on enhancing the academic proficiency, but also the social and personal aspects of a student.

Apart from huge collection of text books, complete references, tech magazines, we also find self help books.

The interesting part is that we have net enabled systems which help us to be dynamic. The NPTEL video lectures in

the library prove a nectar to the students who have thirst for knowledge.



Lakshmi Teja
3rd year, CSE

Library Resources

Resources Numbers

Books	67,210
CD's & Videos	2,290
Bound Volumes of Journals	1,983
Reports/ Standards	2,944
Current Journals	180

on Subscription

NPTEL Video Courses access through LAN

Services:

The library offers the following services to students:

- Current Awareness Service(CAS) - provides the latest information to users in the area of Science and Technology and Engineering on demand
- Inter Library Loan(ILL)- Books (not available with us) may be obtained from other libraries on request
- Reference Service - Staff are available in the reference section of the reading room to suggest sources of Information and to assist in locating the required materials.
- News Paper Clipping Service – Adding newspaper clips on current events of technological significance
- Book Bank Service
- Internet Access - 40 terminals are available for the users to browse the internet through 24 Mbps broadband connectivity.
- OPAC
- Audio-video viewing
- Photocopying

Institutional Membership:

- The Energy Research Institute (TERI)
- DELNET
- American Information Resource Centre Library
- Indian Institute of Management (B)
- INSDAG

E-Journals:

IEEE- ASPP, ASCE, ASME, J-Gate, EE&CS, PROQUEST, MCGRAW-HILL access science, ASTM and Springer Computer Science e-books.

A

s our students get ready to make a foray into the real world, after a few years of rigorous learning, training and polishing, we at Sona, work tirelessly to make their entry as smooth as possible. Yes..our placement cell works round-the-year to get our students top jobs even as they set foot into the IT world or the corporate sector. We think up innovative ways to woo top-end recruiters. What's more, headhunters from top MNCs scout Sona for well-trained, well-groomed engineers and managers. In fact, Sona has established a reputation as a top-notch hunting ground for major IT companies. And we are proud of it.

Training and Placement



The following is a partial list of leading industries who have recruited Sona students:

Accenture Inc, Bangalore
Cognizant, Chennai
Infosys Technologies, Bangalore
i-Nautix Technologies, Chennai
HCL Technologies, Chennai
Mphasis Ltd, Bangalore
Tata Consultancy Services, Chennai
Wipro Technologies, Chennai
AON Hewitt, Chennai
Vedanta – MALCO Ltd, Mettur
Robert Bosch (P) Ltd, Coimbatore
Steria India Ltd (XANSA), Chennai
Torry Harris Business Solutions, Bangalore
Hexaware Technologies, Chennai
Geometric Global Ltd, Chennai
Titan Industries Ltd, Hosur
Lucas TVS, Chennai
Essar Steels Ltd, Surat
JSW Steels Ltd, Salem
Aircel Ltd, Coimbatore
ETA Ascon Ltd, Dubai
Future Group, Hyderabad
AFCONS Infrastructures Ltd, Surat
REVA Electric Cars Ltd, Bangalore
Hindustan Motors Ltd, Chennai
CCCL Ltd, Chennai
Asia Motors Ltd, Chennai
Secon Ltd, Bangalore
Subex World, Bangalore
Petrofac Ltd, Chennai
Convergys Information Management, Hyderabad

Computer Sciences Corporations, Noida
L&T Infotech, Chennai
Tech Mahindra, Bangalore
Oracle Financial Solutions (i-Flex), Bangalore
Checktronix Ltd, Chennai
AREVA Ltd, Chennai
EMCO Dynatorq
KARMIC Ltd, Manipal
ACE Glass Ltd, Pondicherry
Shahi Exports Pvt Limited, Bangalore
Eastman Exports, Tirupur
Sona Vana Garments, Salem
Best & Crompton Garments Private Ltd,
Intertek India Private Limited, Tirupur
Honeywell Ltd, Pune
VATECH WABAG Ltd, Chennai
Geodesic, Bangalore
AIG System Solutions, Chennai
CapGemini Ltd, Chennai
Temenos Ltd, Chennai
Renault Nissan Ltd, Chennai
American Megatrends Inc, Chennai
Photon Infotech Ltd, Hyderabad
India Japan Lighting Ltd, Chennai
Vee Technologies, Bangalore
Madura Garments Pvt Limited, Bangalore
Mas Holdings Group of Companies, Chennai
S.P.Apparels, Tirupur
Creative Art of Souls, Pondicherry
Madura Coats Private Limited, Tirupur
Mukesh & Associates, Salem

Organisations Recruiting Sona Students



Faculty

AN INSPIRATION.
A GUIDING LIGHT. A FRIEND FOR LIFE.

Faculty Development Programmes:

At Sona, we realize that the faculty members need to constantly learn and update themselves in order to cater to the changing needs of the Industry. So, we invest a lot of time, energy and money to keep our faculty abreast of the latest technological developments.

The salient features of our faculty development initiatives are :

- Granting leave for pursuing higher education
- Financial aid for participating and presenting papers at national and international conferences, seminars, workshops and industrial internships
- Financial aid for publications of papers and books
- Periodic training in pedagogical skill to enhance their teaching capabilities
- Transparent system of performance appraisal and rewards for best performances
- Financial support for pursuing research and consultancy

Like the humble candle that shines bright illuminating the world around, the faculty members at Sona shine forth with the light of knowledge brightening the lives of many youngsters.

All teaching faculty are highly-qualified, many with doctorates and several with hands-on industry experience. So, what they bring to the table (or rather the lecture hall) is simply incredible. They are indeed a fountain of knowledge; quenching the thirst for quality education among students.

There are over 300 faculty members, covering all branches. The staff-student ratio is an impressive 1:12. So, individual guidance is guaranteed to students.

Class Counsellors and Faculty Advisors are assigned to small groups of students to counsel and monitor their progress periodically.



A good teacher is like a candle - it consumes itself to light the way for others. -Author Unknown

MoUs / Agreements

VIKRAM SARABHAI SPACE CENTRE (VSSC), THIRUVANANTHAPURAM
ISRO INERTIAL SYSTEM UNIT (IISU), Thiruvananthapuram
INFOSYS (Campus Connect), BANGALORE
NASSCOM, New Delhi
IBM INDIA Ltd., for IBM Academic Initiative
CISCO Networking Local Academy along with Amrita Institute of Technology, COIMBATORE
SUN TM Academic Initiative, BANGALORE.
British Council, CHENNAI (NODAL DOTE-BEC CENTRE)
UNIVERSITY OF NOTTINGHAM, Nottingham – NG7 2TU, U.K
Assumption University, Bangkok, Thailand
ATMOSPHERIC SCIENCE DEPARTMENT, Cochin University of Science and Technology, Cochin
RADIO AND ATMOSPHERIC SCIENCES DIVISION, National Physical Research Laboratory, New Delhi
NIGERIAN METEOROLOGICAL AGENCY, PMB 1215 Oshodi Lagos, Nigeria
INDIRA GANDHI ATOMIC RESEARCH CENTRE, Chennai
Streta IT Solution Pvt.Ltd, Chennai
Nuratech Inc. Chennai
CYPRESS SEMICONDUCTOR CORPORATION, Bangalore
CHECKTRONIX INDIA PRIVATE LIMITED, CHENNAI
The Central Institute of Indian Languages (Ministry of HRD, Govt. of India), MYSORE
KMC Construction Ltd., BANGALORE
Prem Textiles International, KARUR
Varalakshmi Starch Industries Ltd. SALEM.
Tamil Nadu SAGO and Starch Manufactures Welfare Association, SALEM
MEGAWIN SWITCH GEAR, Salem
Salem Steel Plant, SALEM
JSW STEEL LIMITED, SALEM WORKS, POTTANERI, METTUR TALUK
Mukesh & Associates, SALEM
JASAN Industries, SALEM
System Level Solutions Pvt. Ltd., USA along with ENIXS, TRICHY
ISRO / DST - Collaborating with Indo-US E-learning Initiative by Government of India
PARTHYS PATENT EAGLE, CHENNAI
ICT - Academy of Tamilnadu (ICTACT), CHENNAI
Central Bank of India, Mumbai
Qualian Technologies Private Limited, Chennai
Syracuse University (LCS-SU), USA.
The Institution of Engineers (INDIA), Kolkata

JOINING HANDS TO DELIVER THE BEST!

**International Students @ Sona
From the world...to Sona!**





SONA - A SHINING EXAMPLE OF GLOBAL COMMUNITY LIVING

Like a beautiful rose that attracts several birds and butterflies with its sweet fragrance and divine nectar, Sona attracts students, not just from India, but from all parts of the world.

Sona's serene campus, inspiring architecture, pristine atmosphere, state-of-the-art facilities and high teaching standards attract hoards of international students from as many as 18 countries.

The students love it here. The quality of education is on par with the best. Plus, they feel so much at home. In fact, many international students proudly call Sona, their second home.

Sona's welcoming atmosphere and cultural diversity make for a very conducive learning environment.





Like a beautiful rose that attracts several birds and butterflies with its sweet fragrance and divine nectar, Sona attracts students, not just from India, but from all parts of the world.



I entered Sona with an anxiety about facing a strange atmosphere with a new culture, new people and new climate. Within a short period of time, all my pre conceptions vanished. The warmth and kindness I receive from the staff and friends make me feel Sona a home away from home. The teaching methodology of the college provides me with the confidence that

I will get placed in one of the top-notch companies.



Sonam Yangki

The college has independent hostel facilities for boys and girls. Rooms are well-furnished with basic necessities displaying a tinge of luxury. Our international students find our hostels very comfortable. Hostel students are provided with easy access to library and computer facilities during leisure hours. Power supply is uninterrupted in the hostels. Food served is hygienic and yummy. The staff at the hostels makes students feel quite at home. True...our hostels are a home away from home.

Hostels



The hygienic and delicious food served with maternal case in the hostel help us to have a healthy life in Sona. We have a great life in the airy and sophisticated rooms in the hostel



Lincoln Sherpa

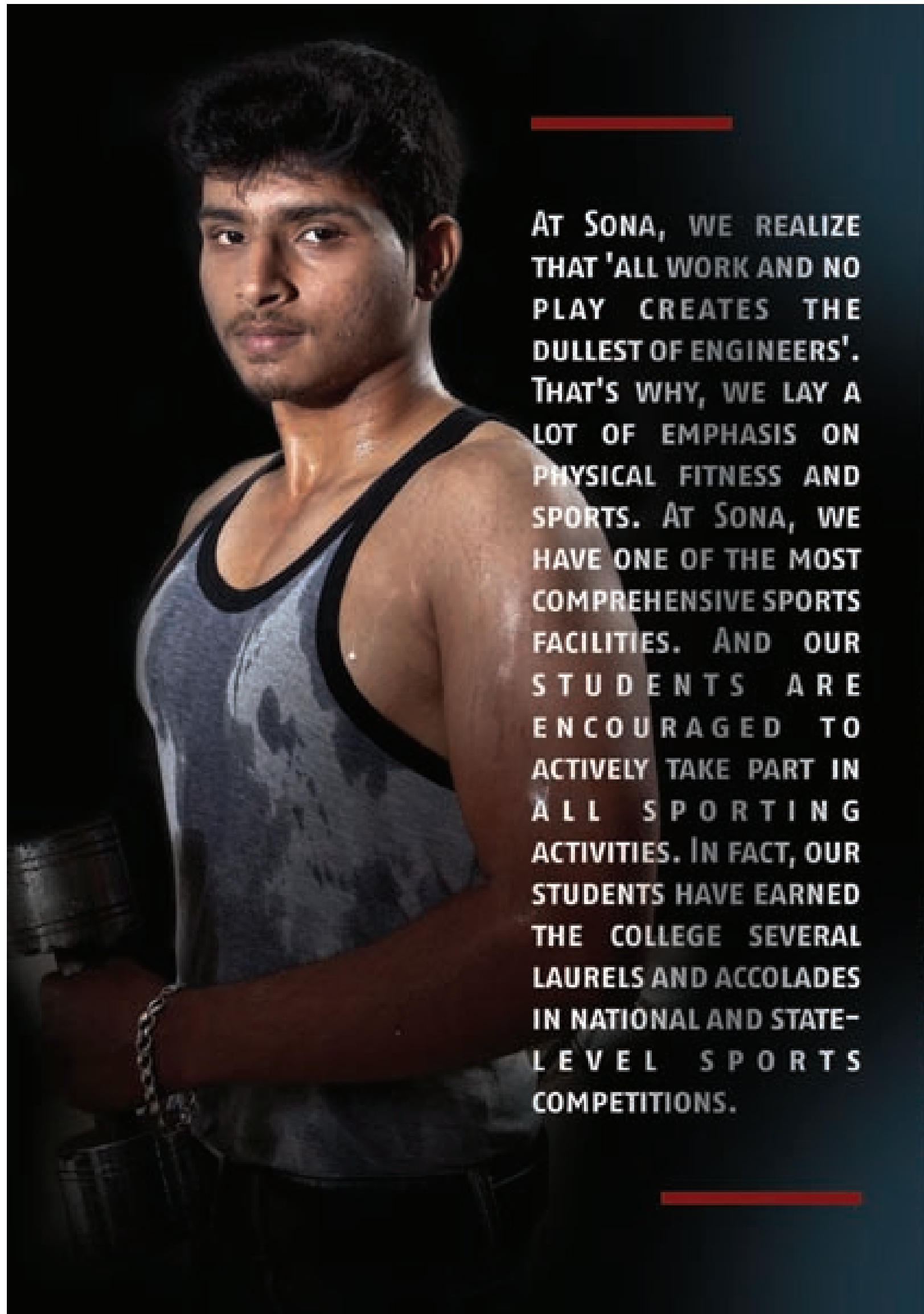


FEELS JUST LIKE HOME!

Department of
Physical Education



**GET ACTIVE.
GET FIT.
GET GOING!**



AT SONA, WE REALIZE THAT 'ALL WORK AND NO PLAY CREATES THE DULLEST OF ENGINEERS'. THAT'S WHY, WE LAY A LOT OF EMPHASIS ON PHYSICAL FITNESS AND SPORTS. AT SONA, WE HAVE ONE OF THE MOST COMPREHENSIVE SPORTS FACILITIES. AND OUR STUDENTS ARE ENCOURAGED TO ACTIVELY TAKE PART IN ALL SPORTING ACTIVITIES. IN FACT, OUR STUDENTS HAVE EARNED THE COLLEGE SEVERAL LAURELS AND ACCOLADES IN NATIONAL AND STATE-LEVEL SPORTS COMPETITIONS.



Sports facilities:

- Athletics ground with a standard 400 metre track
- Modern gymnasium
- Yoga centre
- Huge swimming pool
- Indoor sports club with a billiards table



WINNING MOMENT



M. Muthukumar
IT student

Sona has impeccable sports facilities including gym, billiards, snooker and a well maintained swimming pool. The encouragement given for sports is thoroughly motivating which has led to my lifetime achievement. I was able to set an indelible mark in Sona's sport arena by obtaining Bronze Medal in the Asia Level Power Lifting tournament held at mangolia.



Sona Student Activities

Sonaria

'SONARIA', the Music Club unravels the musical talents of our students. Music provides relaxation and connects to the soul – a must for stress-prone engineering professionals. Through Sonaria, our students enjoy calmness, peace and serenity through beautiful music. Sonaria conducts music shows and trains students in various musical instruments.

Facilities:

- Keyboard - YAMAHA PSR 740
- Rhythm Pad - SPD20
- GIVSON Electric and Hollow Guitars
- Violins
- Flute
- Jazz Drums
- Tabla and a complete set of band instruments

Activities:

- Training students in various areas of music
- Participating in inter-collegiate functions
- Conducting regular music classes
- Conducting music courses in summer for kids
- Conducting stage programmes for the public

SonaRadio

Sona's very own radio channel is run by the student community. The channel focuses on convergence of technology and provides quality entertainment to students.

Women Development Wing

Sona strongly supports women empowerment. This wing brings out the latent talents of our girl students through oratorical competitions, dance events, debates and more.

Sona Fine Arts Association

The fine arts association promotes dramatics and dance in a big way. This association not only educates and entertains the spectators, but also motivates students. It provides students with umpteen opportunities to unearth the potential hidden in them. The association organizes SONATA, a grand cultural event, each year.

Academic Clubs:

The college promotes several clubs that serve as an add-on to the regular academic instructions. These clubs include:

- **English Literary Club - Promotes** communication skills through group discussions, debates, oral presentations, role play, mock interviews, poetry writing, etc.

- **Science Club** – Primarily for the freshers of BE/BTech programmes, the club aims to imbibe a scientific temper in young minds

- **Tamil Mandrum** – Seeks to imbibe in our students a love for Tamil art, literature, culture and way of life.

- **GD, Aptitude, EQ and IQ Club** - Polishes young minds and sharpens the brains through quizzes, brain teasers, GDs, logical reasoning and JAM sessions
- **Tremors Club** - This club, a student initiative, was started to address the environmental and some of the most important socio-economic problems of Salem.

- **Dexter's Club** - The main motto of this club is to trigger the hidden passions of the young minds.

Alumni Voice

There are various club activities that have brought a positive impact in my personality. Being a participant, member and organizer in these clubs, has helped me identify my hidden skills, develop my level of competency, improve communication skills, problem solving capabilities, leadership qualities, flexibility and also to enjoy the spirit of team work.

From the bottom of my heart, I would say, Sona is like being 'On Mother's Lap, where growing becomes a comfortable journey!'



Vidhya Priyadarshini .R

Associate Software Engineer
Accenture, Chennai



EXPLORING LATENT TALENTS!



Social Service

We believe that tomorrow's professionals must be taught to give back to the society through social service activities. We have the NSS, NCC and Blood Donor's Club that instill a societal conscience in youngsters.

National Cadet Corps:

Sona College of Technology has raised the NCC Signal Coy for boys and the Army Wing. The college is equipped with short-range firing, obstacle courses and similar facilities for NCC training. The NCC programme instills daring and sportsmanship through firing camps, drill practices, personality development and voluntary service programmes.

National Service Scheme:

The NSS unit focuses on development activities in nearby villages. The NSS Club enhances the social spirit of students through cleanliness drives, eye donation camps, photography and videography assignments.

Blood Donor's Club

The club registers members who want to donate blood. Motivated by the members of the club, our college students donate blood at the Blood Donation Camp conducted by Government Medical College Hospital, Salem, on Blood Donation Day.



GIVING BACK TO THE SOCIETY!

Sona open air auditorium

Showcasing talent in a serene setting!

Sona's Open Air Auditorium is an architectural master piece. With the moon lit sky as its roof, the auditorium serves as a right platform for the enthusiastic students' talent exhibition.



Inauguration of Advanced R & D Block by
His Excellency
Dr. A.P.J. Abdul Kalam
Former President of India

1. Centre for Nano Materials / Micro Machining (CNM/ CMM) Department of Mechanical Engineering

OBJECTIVES:

Development of Nanostructured materials including coatings; Development of micro ECM (Electrochemical Machining) and micro EDM (Electric Discharge Machining) for manufacturing micro components; To develop a setup for production of metal matrix composites especially Aluminium Matrix Composite (AMC)

ACTIVITIES:

RESEARCH

- Synthesis of various nanostructured materials including coatings.
- Optimization of process parameters in pulse plating, high energy ball mill, μ -ECM and μ -EDM and casting of AMC
- Ph.D / M.E / M.Tech / M.Sc / M.Phil project works

CONSULTANCY AND TESTING:

- Development of materials and coatings for specific applications
- Transfer of pulse plating technology to plating industries.
- Provide consultancy for electroplating industries
- Provide consultancy in casting of AMC and its machinability
- Providing training for operation of μ -ECM, μ -EDM machines and high energy ball mills.

DEVELOPMENT:

- μ -ECM and μ -EDM
- Pulse plating setup for plating of various materials
- AMC production setup

MEMBERS OF THE CENTRE:

Head: Dr. RM.Arunachalam M.E, Ph.D (NUS) (On leave)

Centre Head : Dr. S. Ramesh
Landline : +91427 4099716
E-mail : drsr@sonatech.ac.in

2. Centre for Excellence in Robotics and Nonlinear Dynamics (SONA RND) Department of Mechanical Engineering

OBJECTIVES:

To design and develop robotic system for space, defense application, and nuclear system maintenance.

To design and develop nonlinear tools/models for modeling and analysis of space robotic system, textile machinery, missile guidance, biomechanical / biomedical system, and nuclear system dynamics.

ACTIVITIES

- Design and Development of Wheeled leg Robot.
- Design and Development of Artificial leg.
- Design and Development of intelligent gripper.
- Experimental study of spacecraft dynamics.
- Design and analysis of reconfigurable flying machine.
- Development of swarm Robots for security applications.
- Design and analysis of light weight robotic manipulator with indexing type end effector.
- Construction of models of grippers & Tree Climbing machine.



Centre Head : Dr.M.Thangavel
Landline : +91427-4099704
Cell : 98944 30983
E-mail : drmthangavel@sonatech.ac.in

3. Sona Special Power Electronics and Electric Drives (Sona SPEED) Department Electrical and Electronics Engineering

OBJECTIVES:

Research, design and development of special electrical motors and drives for aerospace and under water requirements.

ISRO Inertial systems unit (IISU), TVPM

- Slot less Brushless dc motor working on orbit from 13th OCT 2011 and the performance is excellent.
- Limited angle torque (LAT) motor
- Principle Demo models.

Vikram Sarabhai Space Centre (VSSC), TVPM

- Quadruplex BLDC torque motor
- Stepper motor
- 10KW, 5000 rpm, High power BLDC motor for Reusable Launch Vehicle

Hyderabad Batteries Limited, Hyderabad

- 3KW, 10000rpm NaOH compatible BLDC motor for underwater battery application.
- Drive electronic for 3KW, 10000rpm BLDC motor.

ISRO Satellite Center (ISAC), Bangalore

- Hybrid stepper motor, for satellite mechanisms.
- 1Kw BLDC Generator motor for iITsa.

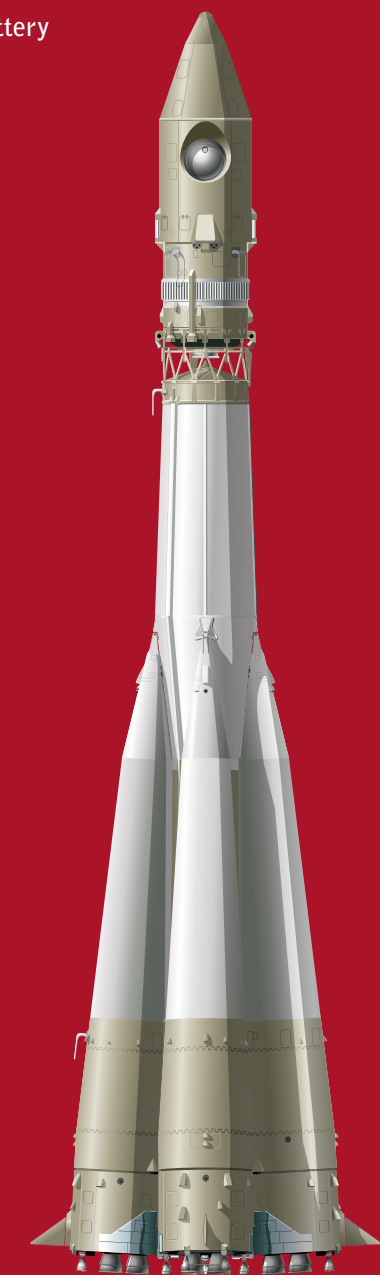
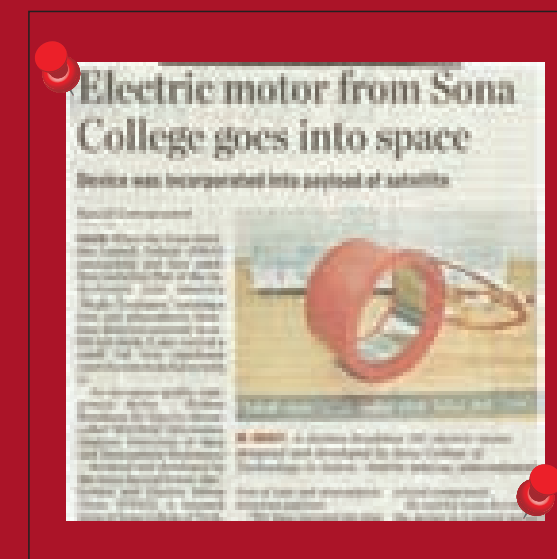
Satish Dhawan Space Centre (SDSC) SHAR, SRIHARIKOTA.

- Principle Demo models.

Sona College of Technology

- 2.5 KW BLDC motor for EEE laboratory.

Centre Head : Prof.N.Kannan,
Landline : +91427-4099724,730
Cell : 9442230064
E-mail : rnd.eeesona@yahoo.co.in
Web : www.sonaspeed.com



4. Sona Electric Power Engineering Research and Testing centre (Sona PERT) Department Electrical and Electronics Engineering

RESEARCH CENTRES

OBJECTIVES:

SonaPERT is an integration of expertise, advanced tools and efficient management at one place for providing innovative research, testing, consultancy and training services in the field of High Voltage and Electric Power Engineering. It is fully committed to provide quality and innovations to electrical utilities and industries.

ACTIVITIES:

Research

SonaPERT has dedicated highly qualified research team to work on Research and consultancy projects related to variety of electric power industries. It has fully equipped testing lab and infrastructure facilities to provide a Centre of Excellence for projects of any size in the electric power sector.

Test Facilities

SonaPERT offers a variety of testing facilities to customers in the area of high voltage and electric power engineering as per IS/IEC standards. This service is provided in a cost effective and efficient manner with advanced instruments and test facilities. Customer satisfaction is the primary goal of the SonaPERT.

Consultancy

SonaPERT has been providing outstanding consultancy services in various areas of electric power engineering to large number of customers. It involves R&D projects, application of new technology, design and development of new products, system and reliability studies, optimizing operation, condition monitoring and diagnostics. Many of our projects are done together with several customers having the same interest and sharing experience.

Training

SonaPERT offers training courses for all type of students and working peoples

The major areas of training courses are,

Fundamentals and practical aspects of electrical engineering

1. Recent trends in condition monitoring of electric power apparatus such as cables, transformers, etc.
2. Advanced testing techniques of protective relays
3. Recent trends in testing techniques of high voltage equipments

Centre Head : Dr.S.Padma
Landline : +91427 - 4099729
Cell : 9942584848
E-Mail : sonapert@sonatech.ac.in
Web : www.sonapert.com



5. Signal and Image Processing Research Centre (Sona SIPRO) Department of Electronics and Communication Engineering

OBJECTIVES:

To specialize the processing of data delivered by electronic eyes and to obtain reliable information from the millions of data.

ACTIVITIES

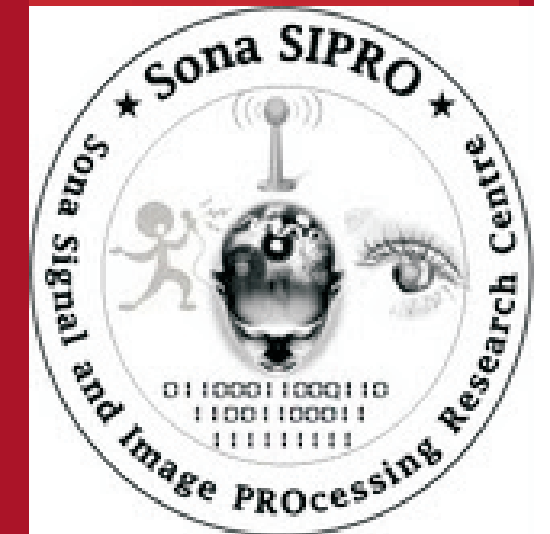
A.RESEARCH AND DEVELOPMENT

- Textile classification of images for textile industries, agriculture and medical applications.
- Composing comprehensive digital image of the earth's surface from satellites.
- Design algorithms in the following areas like Image Restoration, Enhancement and Compression.

B. TRAINING

- Offering Short-term courses in Digital Image Processing (DIP) and Digital Signal Processing (DSP) using MATLAB.
- Guidance for Student Projects (UG/PG)
- Publishing papers in National / International Conference and Journals.
- Guiding Various Ph.D Research Scholars in the area of Digital Signal and Image Processing

Centre Head : Dr.R.S.Sabeenian
Landline : +91427 - 4099774
Cell : 98948 59444
E-Mail : sabeenian@sonatech.ac.in



6. Centre for VLSI and Embedded SoC (Sona CVES) Department of Electronics and Communication Engineering (PG)

OBJECTIVES:

Design and simulate intelligent Electronic Circuits and Systems using EDA and ANN tools. Offer training in XILINX , MATLAB and CCS / Cadence Software, admit Ph.D Research Scholars under Projects Scheme in VLSI and Communication Systems. Design system on Chips (SoC) for Industrial Electronics Applications.

Activities

Research and Development

To encourage Ph.D Scholars to undertake research activities in the college premises, for this a Ph.D. center has been established These scholars may be sona staff or encourage them to join Sona College of Technology.

To develop industrial Electronics products for commercial use.

Centre Head : Dr.K.R.Kashwan
Landline : +91427-4099877
Cell : 94423 66512
E-mail : drkrkashwan@sonatech.ac.in

Training

To conduct training programs in EDA tools for department faculty.

To conduct short – team courses for revenue generation for faculty members students industry professionals.



7.Sona Network Computing Research Centre (Sona Net) Department of Computer Science and Engineering

OBJECTIVES:

To develop new architecture / Technologies in Networking and related areas.
To provide consultancy services tailored to the needs of organizations for innovative IT solutions in these areas.

RESEARCH & DEVELOPMENT AND CONSULTANCY AREAS

Security in Wireless Sensor Networks
Wireless Ipv6 Networks
Smart Organizations
Mobile e-Learning

Centre Head : Dr.M.Usha
Landline : +91427 - 4099741, 754
Cell : 94433 20596
E-Mail : sonanet@sonatech.ac.in
Web : www.sonanet.in



8.Centre for Data Mining & Database System Design (Sona MINE) Department of Computer Science and Engineering

OBJECTIVES:

To develop pioneering tools and applications applied to database and data mining. To obtain patents for the framework developed.

ACTIVITIES

A. RESEARCH AND DEVELOPMENT

To cater to the needs of industries and academia by developing business intelligence solutions and frameworks for database design.

B. CONSULTANCY

To develop software for nearby industries, educational institutions and hospitals.

Centre Head : Dr.B.Sathiyabhama
Landline : +91427 - 4099744
Cell : 94426 68758
E-Mail : sathiyabhama@sonatech.ac.in



9.Centre for Web Services and Development (Sona WEB) Department of Information Technology

OBJECTIVES

- To cater to the needs of society in developing interactive, intelligent applications on Internet
- To develop Web sites for the organizations
- To carry out research in the field of World Wide Web
- To provide training in different Web technologies

ACTIVITIES

RESEARCH AND DEVELOPMENT

- Web Information Retrieval
- Personalization
- Web services
- Ontology engineering

CONSULTANCY

- Design Web sites and provide Web services for industries, educational institutions, hospitals and corporate organizations
- Ontology engineering

TRAINING

- Offer training in different Web Technologies
- Offer project and research guidance to the students
- Conduct sponsored faculty development programmes



Centre Head : Dr. J. Akilandeswari
Landline : +91427-4099755
Cell : 98947 77003
E-mail : akilandeswari@sonatech.ac.in

10.Centre for Reaserch and Development of Free Open Source Software (Sona FOSS)

OBJECTIVES

To develop projects using open source technology, based on the Industry needs & problems and to promote open source awareness to the students and near by industries.

ACTIVITIES

RESEARCH AND DEVELOPMENT

- Software for brushless DC torque Motor design for launch vehicle application using Open GL / Qt.
- Development of compiler tool chain and Flash burning tool for 8051 microcontroller.
- Development of space craft simulation tool using Open GL / Qt.
- Development of Plant graphics using Open GL/Qt.

TRAINING AND CONSULTANCY

Expertise Available

- | | |
|---------------|------------------|
| • GNU / Linux | • Ruby |
| • GCC | • Embedded C |
| • GDB | • OpenGL |
| • Perl | • Qt |
| • Python | • Gtk+ |
| | • Tcl/Tk |
| | • Scilab |
| | • Device Drivers |



Centre Head : Mr.S. David Samuvel Azariya
Landline : +91427-4099749
Cell : 98437 90325
E-mail : david@sonatech.ac.in

RESEARCH CENTRES

11. Research Centre for COcrete InnovatioN (Sona COIN) Department of Civil Engineering

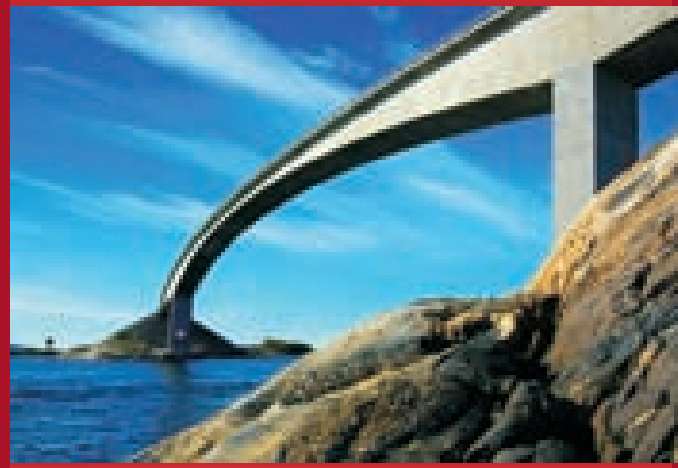
OBJECTIVES:

To undertake research in construction materials in particular on concrete by using waste materials and industrial by products on large scale for eco friendly green building concept. SONA COIN facilitates applied research on concrete and construction materials and provides testing, consultancy and expert opinion on materials and methods in construction industry

ACTIVITIES

RESEARCH AND DEVELOPMENT

- Design and production technology for Fiber Reinforced Concrete (FRC) & Geo polymer Concrete
- Design, development and testing / evaluation of new concrete composites.
- Development of suitable methodology for assessment and monitoring of damaged structures (due to fire, weathering agencies & Corrosion)
- Cost effective Techniques for concrete products
- Conversion of demolition waste into bricks, concrete & pavement blocks
- Development of building blocks from different kinds of soils and industrial wastes.
- Evaluation / characterization of building materials, concrete chemicals / repair materials
- Development and Application of special Concretes



CONSULTANCY AND TESTING

- Consultancy on concrete Mix Design
- Testing on Building Materials & Soil
- Health Monitoring of structures

Centre Head : Dr. R.Malathy
Landline : +91427 - 4099867
E-Mail : civilmalathy@sonatech.ac.in

12. Centre for Research & Development of Disaster Mitigation and Management (Sona CDMM) Department of Civil Engineering

OBJECTIVES:

To understand research in Disaster Mitigation and Management.
To solve problems of structural failures and remediation.
To solve problems of environmental degradation.
To create awareness of risk reduction.

ACTIVITIES

A. RESEARCH AND DEVELOPMENT

- Risk identification in structural failures.
- Awareness of risk reduction.
- Remediation of structural members.
- Technology Based Evaluation system.

B. CONSULTANCY & TRAINING

- Consultancy on structural failures.
- Consultancy on Retrofitting and strengthening of structural members.
- Offering short-term courses on Disaster Mitigation and Management" and Retrofitting of RC and Steel structures



Centre Head : Prof. A.Murugesan
Landline : +91427 - 4099765
Cell : 94443 13272
E-Mail : murugesan@sonatech.ac.in

13. Centre for Research in Textiles / Garments and Extension Activities (Sona REACH) Department of Fashion Technology

OBJECTIVES:

To carry out R and D work in emerging areas of textile and garment technology, To strengthen the interaction between industry and the Fashion Technology (FT) Department through mutually beneficial linkages, To widen the scope of textile testing and consultancy so as to meet the needs of the textile and garment industries in the region, To enhance placement training to ensure 100% placement of the FT graduates mostly in top-notch garment companies by August every year, To organise continuing education courses in viable areas of textile and garment technology

ACTIVITIES

RESEARCH AND DEVELOPMENT

- Undertaking R and D projects in the areas of textile finishing and clothing comfort
- Publishing results of the research work in leading refereed journals and in national and international conferences

INTERACTION WITH INDUSTRY

- Maintaining continuous contact with industry through periodic interaction and visits
- Taking up sponsored training of garment industry personnel

TESTING AND CONSULTANCY

- Testing fabric samples for industry
- Offering consultancy services to external organisations in textile and garment technology

PLACEMENT TRAINING

- Providing comprehensive placement training to produce industry-ready graduates

CONTINUING EDUCATION AND TRAINING

- Offering need-based or customised courses related to garment production



Centre Head : Dr.C.V.Koushik
Landline : +91427 - 4099833
Cell : 94425 10724
E-Mail : cvkoushik@sonatech.ac.in

14. Centre for Study on Rainfall and Radio wave Propagation (Sona CRRP) Department of Physics

OBJECTIVES

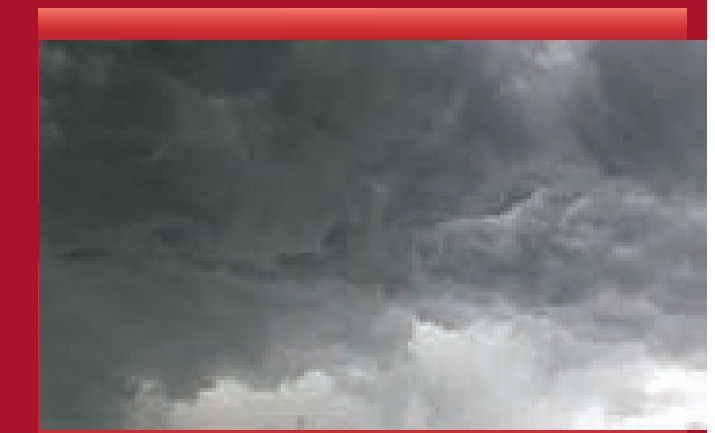
To find out the dynamics of rainfall and its effects on radio wave propagation and to create a centre of excellence in the field

ACTIVITIES

Research in the field of rainfall and radio wave propagation
Conducting seminars / symposia
Guiding M.Phil., and Ph.D students

Ongoing R & D projects:

- Study of radar bright band height sponsored by ISRO, Department of Space, Govt. of India.
- Study of cloud liquid water, latent heat and precipitation water in relation to rainfall.



Centre Head : Dr. Rajasri Sen Jaiswal
Landline : +91427 - 4099798
Cell : 94425 10724
E-Mail : crrp.official@yahoo.com
Web : www.sonacrrp.org

15. Centre for Data Security using Steg Bio Metric Systems (DATA SECURITY) Department of Computer Applications

OBJECTIVES:

To drive the need for complete data protection solution which secures data on all common platforms that scales to any size organization and meets strict compliance requirements related to privacy law and regulations

ACTIVITIES

RESEARCH AND DEVELOPMENT

- To provide technology solutions on Access control, Authentication, Data loss prevention, Encryption, Key Management & Fraud prevention
- To provide Business solutions that cover Data Security, Integrity, Privacy & Comprehensive solutions for Information Risk Management
- To provide Industry solutions on Financial Services, Health care and E-Commerce

SECURITY CONSULTANCY SERVICES

- Data loss prevention risk advisor service
- Information security policy development
- Information risk assessment
- Assessment Services for storage security
- Information security for programme development

TRAINING

Training programme offers theoretical and technological basics with practical demonstration and hands-on. This includes Instructor led learning, on-line learning and learning materials



Centre Head : Dr.G.M. Kadhar Nawaz
Landline : +91427 - 4099825
Cell : 98949 84898
E-Mail : mca@sonatech.ac.in

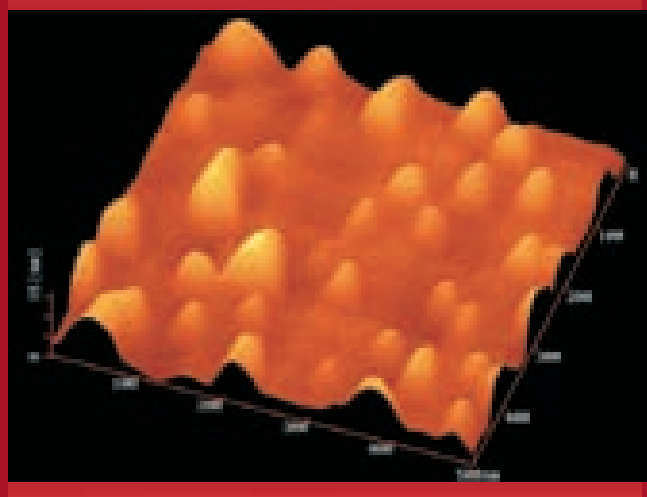
16. Centre for Photonics and Nano-Technology (Sona PAN) Department of Physics

OBJECTIVES:

- To fabricate Quantum Dot (QD) devices for free space optical communications
- To assemble semiconductor Micro-tubes for monolithic integration of optical devices and sensors
- To fabricate Organic Light Emitting Diodes (OLEDs) for display applications
- To fabricate QD/Nanoparticle based Solar Cells.
- NLO Crystals (Crystal Growth)

ACTIVITIES

- Fabrication and characterization of QD based Laser Diodes and Micro tubes in collaboration with Doshisha university, Kyoto, JAPAN
- Fabrication and characterization of semi-conductor microtubes and micro-plates in collaboration with Indian Nanoelectronic user program (NUP) at IISC, Bangalore
- Formation and characterization of Organic Light Emitting Diodes
- Ph.D/M.Sc/M.Tech/M.Phil Projects.



Centre Head : Dr.S.Saravanan
Landline : +91427 - 4099796, 892
Cell : 99410 05356
E-Mail : saran@sonatech.ac.in

17. Sona Science Centre for Testing and Applied Research (SONASTARCH) Department of Chemistry

OBJECTIVES:

Sona Science Centre for Testing and Applied Research (SONASTARCH) is a state-of-the-art chemistry testing and research laboratory under the Department of Chemistry of Sona College of Technology.

VISION

To be a scientific and technological research centre with complete cycle of operations and to be a specific centre of excellence in the field of Applied Chemistry.

MISSION

To carry out R&D activities that help in solving the problems if industries and rural communities and to increase the productivity, enhance better quality of life as well as to conserve environmental conditions.

ACTIVITIES

A. TESTING AND CONSULTANCY SERVICES

SONASTARCH is actively involved in the following consultancy/quality testing services to the organizations pertaining to

- Sago, starch and allied products
- Water & wastewater
- Food products
- Metals, minerals & alloys
- Natural products
- Oil & soaps

Centre Head : Dr.K.Karunakaran
Landline : +91427 - 4099998
Cell : 94433 67638
E-Mail : drkk@sonatech.ac.in



B. RESEARCH & DEVELOPMENT

Research works are being carried out in the thrust areas viz,

- Catalysis
- Adsorptive removal of hazardous materials
- Pharmaceutical chemistry
- Microbial conversion of agricultural wastes into bio alcohol
- Synthetic organic chemistry
- Conformational analysis through

18. Nanoscience Centre for Optoelectronics and Energy Devices [Nano-COED]

OBJECTIVES:

To establish an internationally renowned high level research on nanotechnology at Nanoscience Centre for Optoelectronics and Energy Devices [Nano-COED], under the Department of Chemistry, Sona College of

Design and development of Organic Light Emitting Diodes (OLEDs).

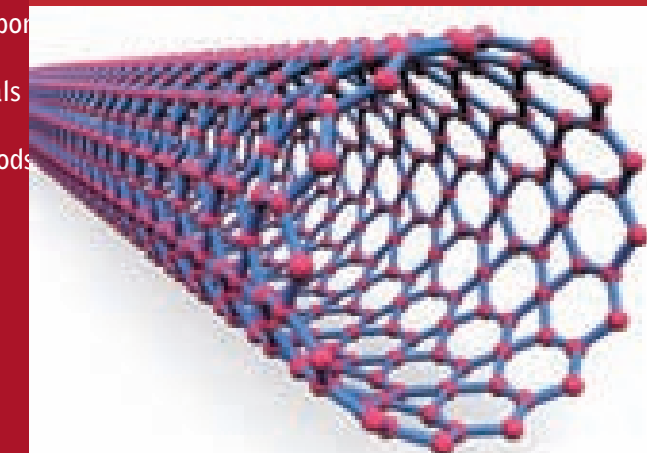
To develop highly efficient third generation solar cells using carbon nanotechnology.

To synthesize various organic, inorganic and hybrid nanomaterials for optoelectronic applications.

To investigate the chemical reactions using computational methods.

To solve industrial problems by Nano-technological approach.

Centre Head : Dr. A.P. Uthirakumar, M.Sc., Ph.D (South Korea)
Landline : +91427 - 4099791, 793
Cell : 97891 42732
Web : www.sonatech.ac.in/dhm/uthirakumar.html





19. Sona CAD/CAM /CAE Consultancy and Training Centre Department of Mechanical Engineering

OBJECTIVES:

To offer consultancy and Training services in the area of CAD/CAM/CAE
To offers spectrum of engineering services, based on a combination of Engineering Knowledge, software skills, and Industrial experience.

ACTIVITIES

CONSULTANCY

- Modeling, Assembly, Detail Engineering, Mechanism, Analysis and Drawing Conversions

JOB - ORDER PRODUCTION ON

- CNC Lathe LT 16 FANUC Oi series and Electronica Ecocut Wirecut EDM

SHORT TERM COURSES

- Pro/E , Solidworks, Inventor, AutoCAD and ANSYS

TRAINING

Programming, operations and maintenance of Industrial model CNC Lathe Lt16 Fanuc-Oi series and Electronica Ecocut Wirecut EDM



Centre Head : Mr.D.Suresh Babu
Landline : +91427 - 4099714
Cell : 9944268050

20. SONA PCT - Printed Circuit Board Design, Fabrication and Training centre Department of Electronics and Communication Engineering

OBJECTIVES:

To provide industry oriented training in PCB Design, Fabrication, assembling and testing and also have in tie up with up growing electronics industries for making PCBs.

ACTIVITIES

TRAINING

- Offering special training on PCB Design and Fabrication
- Organising technical workshop and seminars

CONSULTANCY

- Offering Consultancy Services in the are of PCB Design and Fabrication to Local Industries also for ISRO (SONA SPEED)



Centre Head : Mr.B.Ayubkhan
Landline : +91427 - 4099779
E-Mail : ayubkhan@sonatech.ac.in

21. Infosys Campus Connect Programme

OBJECTIVES:

To facilitate the students knowledge on basics of IT and Computer Science Skills, and to make them employable ready

ACTIVITIES

TRAINING

Training is offered by the faculty members who are trained by INFOSYS, using the methodology and course materials prepared by INFOSYS. Students are also trained to take up the 'Campus Connect' test conducted by INFOSYS, successfully



Centre Head : Prof.B.Saravanan
Landline : +91427 - 4099855
Cell : 9442601304
E-Mail : saravanceir@sonatech.ac.in

22. Sona School of Multimedia Technology

OBJECTIVES:

To offer short term courses on Multimedia Packages like Desktop Publishing, Graphics Designing, Web Designing, 2D & 3D Animations that focus more on industrial training with real time projects.

ACTIVITIES

A. TRAINING

Offer training on multimedia courses

- Desktop Publishing
- Graphics Designing
- Web Designing
- 2D Character Animation
- 3D Modeling & Animation
- Advanced 3D Modeling and Animation using MAYA
- Digital Film Making using Combustion

Special Achievements

Courses Conducted for

- Slum Clearance Board, Salem
- Tamilnadu Corporation for Women Development, Salem
- Swarna Jeyanthi Sahari Rogar Yojana, Salem City Municipal Corporation



Centre Head : Mr.P.Suresh
Landline : +91427 - 4099996, 890
Cell : 9500472716
E-Mail : info@sonaversity.org
Web : www.sonaversity.org

23. SONATRIN - Centre for Training & Development

OBJECTIVES:

To excel in any profession, it is essential that the skills required for that profession is acquired. SONATRIN imparts customized skills required for the Faculty to excel in their teaching profession.

ACTIVITIES

- Conducting training programmes on Pedagogy for the teaching faculty
- Conducting technical and other skills required for the non-teaching staff
- Offering customized need-based programmes for the teaching fraternity
- Conducting soft skill development programmes for the students
- Providing HR solutions, like framing HR policies, Conducting Employee satisfaction surveys

Centre Head : Prof. B. Saravanan
Landline : +91427 - 4099855, 899
Cell : 9442601304
E-Mail : sonahrd@sonatech.ac.in

24. Sona Continuing Education Centre

OBJECTIVES:

To offer various technical and special courses, under Continuing Education scheme, to enhance the knowledge of students and professionals in this region.

ACTIVITIES

TRAINING

- Offering short-term courses in the disciplines of Engg, Technology, Management and Languages associating with respective dept. of Sona
- Offering Special Courses during summer and winter holidays
- Offering need based training programmes
- Offering skill based enhancement programmes

MAJOR COURSES OFFERED:

- C, C++, JAVA, J2EE, Visual Basic,
- VB. Net, ASP.Net, Oracle 10G, Linux,
- CISCO Networking, Project Management,
- Multimedia courses, VLSI Design,
- PCB Design, Digital Signal Processing,
- Digital Image Processing,
- Embedded Systems, Pro/E, Ansys,
- Microcontrollers,
- AutoCAD, MasterCAM,
- Highway Design,
- Surveying with Total Station,
- STAAD.Pro,
- Fashion Sketching and Drawing,
- Pattern Making & Garment Construction,
- Business English Certificate,
- Spoken English,
- Improve Your English, French
- German and Japanese etc.

Centre Head : Mr. A. Venkatesan
Landline : +91427 - 4099895
Cell : 9443514698
E-Mail : scec@sonatech.ac.in

RESEARCH
CENTRES



25. Centre for Social Responsibility Initiatives (SONA CSRI) (Training and Development for Employable Skills)

OBJECTIVES:

To support the under-privileged and the socially disadvantaged sector of the community by providing employable skill training in various sectors in order to improve the working skill, lively-hood and quality of life of people.

ACTIVITIES

- Creating Awareness and Vocational Counselling on various skill development initiatives and Employment Sources among the target population, rural in particular.
- Organising need based skill development training programmes in various sectors in collaboration with industries towards fulfillment of skill development initiatives of Government of India.
- Offering Strategic supports in Education, training and consultancy.

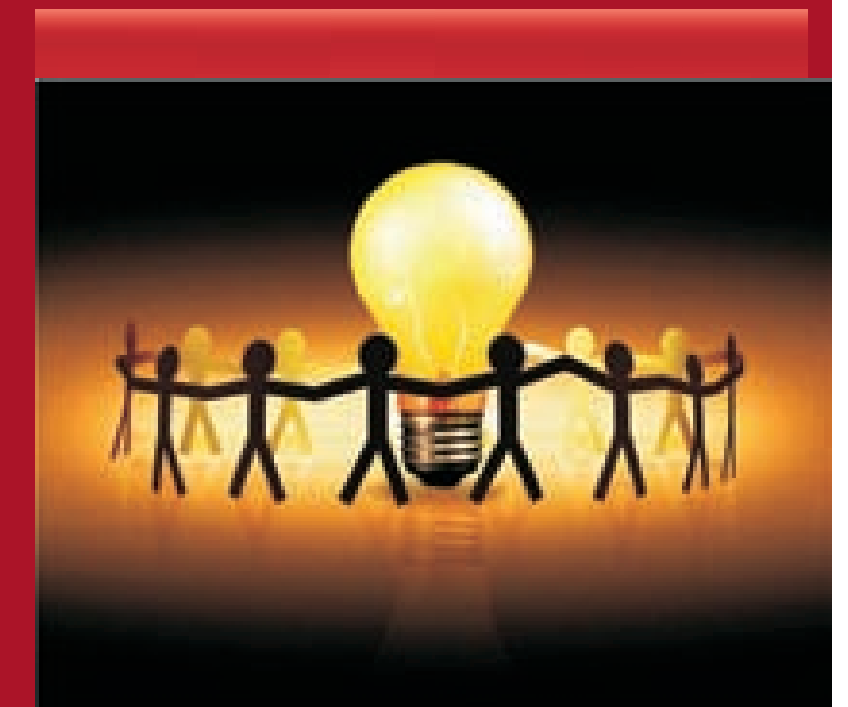
Corporate Social Responsibilities

- JSW Steel Limited, Salem Works, Pottaneri, Salem
- Steel Authority of India Limited (SAIL), Salem Steel Plant, Salem

Upgradation of Industrial Training Institutes (ITI)

- Partners in upgradation of following Government Industrial Training Institute under Private Public Partnership mode-ITI for Women, Salem and ITI, Mettur Dam Vocational stream programmes of Rural School
- Serving as Training Resource / Nodal Centre for.
 1. Social Welfare Departments of Government of Tamilnadu
 - District Rural Development Agency, Salem.
 - District Industries Centre, Salem.
 - Department of Differently abled Welfare, Salem.
 - National Bank for Agriculture and Rural Development (NABARD), Salem.
 - Tamilnadu Corporation for Development of Women, Salem.
 - Vazhnthu Kattuvom (A World Bank Project of Empowerment and Poverty Alleviation) Salem
 2. Ministry of Housing and Urban Poverty Alleviation, Government of India
 - Swarna Jayanthi Sahari Rozgar Yojana (SJSRY), Salem City Municipal Corporation, Salem.
 3. Ministry of Labour & Employment, Government of India
 - Vocational Training Provider – Modular Employable Skill of National Council for Vocational Training (NCVT)

Centre Head : Mr.P. Raghupathy
Landline : +91427 - 4099308
Cell : 97906 90707
E-Mail : raghusonacsri@gmail.com



26. Centre for study of Earthquake Resistant Design (SONA ERD) Department of Civil Engineering

OBJECTIVES:

To undertake research in Development of Earthquake resistant Design and offer specialised courses related to this field.

ACTIVITIES

RESEARCH AND DEVELOPMENT

- Design methodology of earthquake resistant Structures according to the different seismic zones
- Technologies for detailing of the structures taking into consideration the ductility factor

CONSULTANCY

- Design of structures for seismic loads.

TRAINING

- Offering short-term courses on "Earthquake resistant design of structures"

Centre Head : Prof. K. Prasad Babu
Landline : +91427 - 4099766
Cell : 9442630173
E-Mail : sonacivil@yahoo.co.in



RESEARCH CENTRES

28. SONAVERSITY (Research and Development centre for Multimedia Educational Resources)

OBJECTIVES:

- To develop user friendly Computer Based Training packages in the form of CD-ROMs
- To provide consultancy in the area of Multimedia and web technology
- To focus on research activities in the area of E-Learning and education broadcast through Television

ACTIVITIES DEVELOPMENT

- Develop Computer Based Training for Engineering, Diploma related subjects.

CONSULTANCY

- Collaborates with Tamil Virtual University (TVU) in the area of Web Based Training.
- Corporate Training.
- Developing user interactive Learning Resource (LR) materials.
- Content management and digitization.

RESEARCH

- Education broadcast through television
- Research by identifying new tools to focus towards E-learning
- Creating technical information for future reference
- Conducting workshops, seminars.

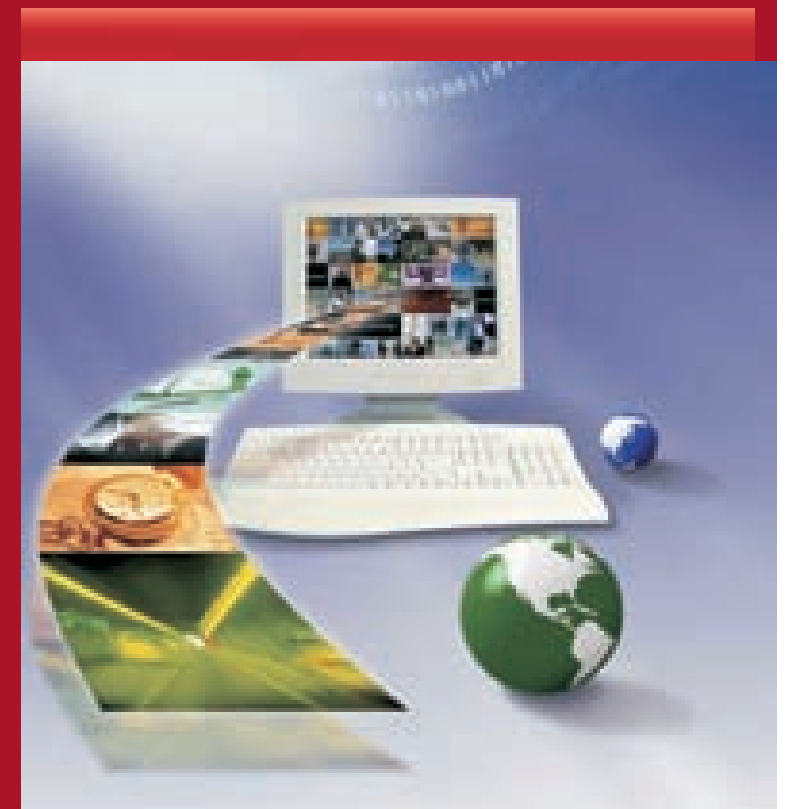
Special Achievements

- Developed more than 75 CBTs in Engineering and Management.
- Developed more than 20 CBTs for Sona Autonomous syllabus.
- Developed more than 30 projects for Tamil Virtual University, Chennai
- Developed 6 Vocational CBT Projects for Vee Technologies, Bangalore
- Developed 4 Textile CBT projects for Nodal Centre for Upgradation of Textile Education
- Developed Training and Maintenance Manual CBTs for Bharat Earth Movers Limited, Hindustan Aeronautics Limited and Bharat Electronics.
- Developed more than 50 CBTs in various standards of school education.

On going Projects

- Developing 4 CBTs on Engineering subjects
- Developing CBTs on Shakti Engine for Hindustan Aeronautics Limited (HAL)
- Developing 3D Film on Advanced Light Helicopter (ALH) Build Sequence for Hindustan Aeronautics Limited (HAL)
- Developing CBTs for Samacheer School Education.

Centre Head : Mr.P.Suresh
Landline : +91427 - 4099996, 890
Cell : 9443227627
E-Mail : info@sonaversity.org



27. Sona Foreign Language Instruction and Research Centre (SONA FLAIR) Department of Humanities and Languages

OBJECTIVES:

- To facilitate the learner's English knowledge
- To provide foreign language learning in addition to English
- To develop communication skills in English and other foreign languages

ACTIVITIES

RESEARCH AND DEVELOPMENT

- Development of content for English language teaching through multimedia language lab

CONSULTANCY

- Consultancy services to educational institutions for establishing multimedia Language Lab

TRAINING

The following short term courses are offered:

- International English Language Testing System (IELTS)
- Business English Certificate (BEC) Course
- Improve your English
- Spoken English
- Technical English
- Other Foreign languages (French, German)



Centre Head : Dr.M.Renuga
Landline : +91427 - 4099780
Cell : 9843682314
E-Mail : mrenuravi@sonatech.ac.in

29. Centre for Business Transformation Sona School of Management

OBJECTIVES:

To offer Management Development Programmes MDPs, Faculty Development Programmes and Business / Management Consultancy Services to Organisations.

ACTIVITIES

- Customised Management Development Programmes MDPs in the below said areas.
- Management-Faculty Development Programmes FDPs
- Need based Courses on Management
- Consultancy Services in Market Research, Financial Performance Analysis, Human Resource Management, Total Quality Management & ISO, Retail Management, Rural Marketing, Project Management, Lean Manufacturing, Innovation and Creativity Management, Business Process Reengineering and Management Information System MIS.

Centre Head : Dr. M. Selvaraj, Director
Landline : +91427 - 4099818
Cell : 9443330173
E-Mail : director@sonamgmt.org

30. Centre for Research and Publication in Business Management Sona School of Management

OBJECTIVES:

To promote research development and publication activities in the areas of Business & Management

ACTIVITIES

- Publication of quarterly journal – Global Management Review
- Research forum promotes research aptitude among faculties and students
- Publication of books and periodicals

Centre Head : Dr.L.Shankari
Landline : +91427 - 4099816
Cell : 9600446611
E-Mail : saishanpari@yahoo.co.in

31. Oracle Training Centre Department of CSE

OBJECTIVES:

To offer Oracle Training Programmes

ACTIVITIES

TRAINING

- Offering comprehensive training on Oracle 10g
- Offering short-term course on DBMS
- Offering short-term course on Oracle DBA



Centre Head : Dr. J. Akilandeswari
Landline : +91427 - 4099755

RESEARCH
CENTRES



32. Centre for Research and Publication in Languages, Science, Engineering and Technology Department of Humanities and Languages

OBJECTIVES:

To promote research and development, and publication activities in the areas of Languages, Sciences, Engineering and Technology

ACTIVITIES

Publication of Biannual journal – Sonalesa

Centre Head : Dr.M.Renuga
Landline : +91427 - 4099780
Cell : 9843682314
E-Mail : mrenuravi@sonatech.ac.in



33. CISCO Networking Academy Department of Information Technology

OBJECTIVES:

To offer training and certification for CISCO certified Network Associate (CCNA) and CISCO certified network professional (CCNP).

Centre Head : Prof.B.Saravanan
Landline : +91427 - 4099855
Cell : 9442601304
E-Mail : saravanceir@sonatech.ac.in

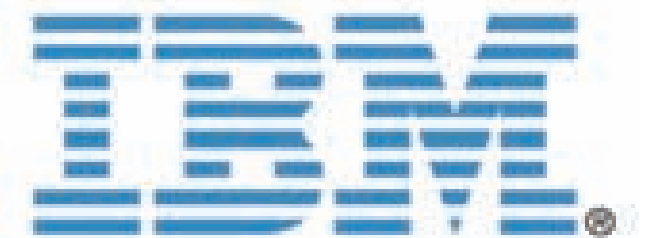


34. IBM Software Centre of Excellence Department of Information Technology

OBJECTIVES:

To offer training and certification on the IBM software like RSA, RFT and DB2 with continued access to further application of IBM's break through technology.

Centre Head : Prof.B.Saravanan
Landline : +91427 - 4099855, 750
Cell : 9442601304
E-Mail : saravanceir@sonatech.ac.in





INDUSTRIALIST'S IMPRESSIONS

Very impressive! I am quite confident Sona College will become a jewel in the Salem Educational Sector. Similarly, the staff - student relationship is remarkable. My best wishes to the college to become a leading technological university, shortly.

J. Parthasarthy
Director, STPI, Bangalore



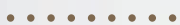
All the departments are equipped with the latest facilities. The library is very good. The departments have taken up projects that go beyond the academic requirement. It is heartening to see the interest in taking up challenging assignments.

T.R. Chidambaram
Deputy Director, VSSC, Trivandrum



It is gratifying to note that Sona College of Technology, Salem could develop and qualify successfully "Slotless BLDC Motor and Quadruplex BLDC Torque Motor" to meet the stringent requirement of Space applications. It is a good example of how an educational institution can co-operate with ISRO and bring out state-of-the-art products for ISRO's Launch Vehicles and Spacecrafts. I wish the Management, Principal, staff and the students of Sona College all the best in their future endeavours with ISRO!

P.S. Veeraraghavan
Director and Scientist



Exceptional infrastructure, ambience for academics, wonderful staff and placement experience. Looking forward to a beneficial association to enrich technology and education mutually.

M.A. Kumar
Infosys

I enjoyed my stay on this campus and within such a short time I could see the pioneering work carried out in the prestigious institution. I convey my best wishes to the great institution to scale much greater heights to become an institution of world standard.

Dr. B.N. Suresh
ISRO



Meeting young and fresh minds is always regenerating. It is an opportunity to learn new trends and fresh ideas. The thought process assumes a fresh whiff of air.

P. Sivarama Krishnana
ELGI Ultra India Ltd., Coimbatore



It was a pleasure to visit Sona and meet with the faculty. We are glad to be associated with Sona. It was great...

Nikil Gupta
Manager, Nasscom, Delhi



An excellent place for understanding academic and practical aspects as well as for production intelligence for future generations.

Jacob K.M.
ISEP Electronics Products Lab, IISC



His Excellency
Dr. APJ. Abdul Kalam
Former President of India



His Excellency
Dr. K. Rosaiah
Governor of Tamil Nadu



Dr. AR. Lakshmanan
Former Judge, Supreme Court,
New Delhi



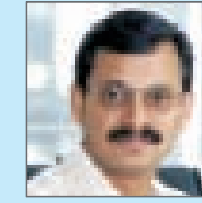
Mr. P. Chidambaram
Union Minister of Finance
India



R. Vidyasagar
Senior Director,
Human Resources,
EMC India COE, Bangalore



Smt. Anandiben
Mafatbhai Patel
Minister, Gujarat
Women & Child Welfare



S. Nagarajan
Co-Founder & CPO
24/7 Customer,
Bangalore



Dr. Chandrasekar Dharuman
Vice President and Local Head,
Wipro Technologies,
Chennai



R. K. Krishna Kumar
Director
TATA Sons Mumbai



Mr. M.V. Subbiah
Chairman
National Skill Development
Corporation (NSDC),



Shri. M. Narendra
Chairman and Managing Director,
Indian overseas bank



Smt. Vijayalakshmi R. Iyer
Executive Director,
Central Bank of India



Shri. J. Parthasarathy
SSTPI,
Bangalore



Dr. Thirukumar Vethanayagam
Director,
Cypress Semiconductor Technology,
Bangalore



S. Sadagopan
founder-director,
Indian Institute of
Information Technology,
(IIIT-B), Bangalore.



R. Jayaraman
Air Commodore



Dr. B. N. Suresh
Former Director,
Vikram Sarabhai Space Centre (VSSC),
Thiruvananthapuram



Mr. Gopal Srinivasan
CMD,
TVS Capital Funds Ltd



Nandini Rangaswamy
Former Chairman
CII, Tamilnadu State Council



Chetan Maini
Deputy Chairman and CTO,
Reva Electric Car Company Pvt Ltd.,
Chennai



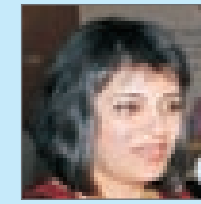
Sujatha Jayaraj
Salem Divisional
Railway Manager
Salem Division



Ms. Indra Prem Menon
President
Lakshmanan
Isola Private Limited,
Bangalore



Smt. Sumitra Gandhi Kulkarni, IAS
Member,
United Nations General Assembly



Dr. Sunita Maheswari
Diplomate
American Board of Pediatric
Cardiology, Consultant Pediatric
Cardiologist



Dr. Sandhya Chintala
Senior Director,
Education Initiative,
Nasscom



K. Purushothaman
Senior Director,
Nasscom



Ramanujam Sridhar
CEO of Integrated Brand-
Comm Pvt Ltd,
Bangalore



V. Lakshmi Narayan
Senior delivery manager, Infosys,
Chennai



Mr. Sivakumar
Actor



Su. Thirunavukkarasar
Union Minister
Delhi



Mr. Rajan Sethuraman
Sr. Vice President- HR
Accenture Inc, Bangalore



Thiru. Gnanasambanthan
Professor

VALUE INSPIRED PERSONALITIES



Rahul Kapoor
Motivational Speaker



Mr N K Ranganath
Chairman, CII
Tamil Nadu State Council



P.T. Usha
Indian Athlete



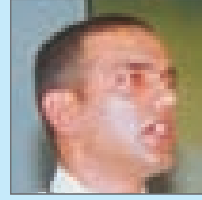
EVKS. Elangovan
Former Member of Parliament
New Delhi



Ms. Meenakshi Nair
Talent Acquisition
Scope International, Chennai



Mr. Prasanna Arunachalam
Country Lead – HR
Accenture Inc, Bangalore



Mr. Narendra Medappa
Talent Acquisition
Infosys Technologies, Bangalore



Mr. Thalpathy
Human Resources
Hyundai Ltd, Chennai



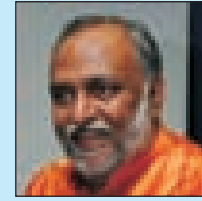
Mr. Subramanian Subbu
Human Resources
iNautix Technologies, Chennai



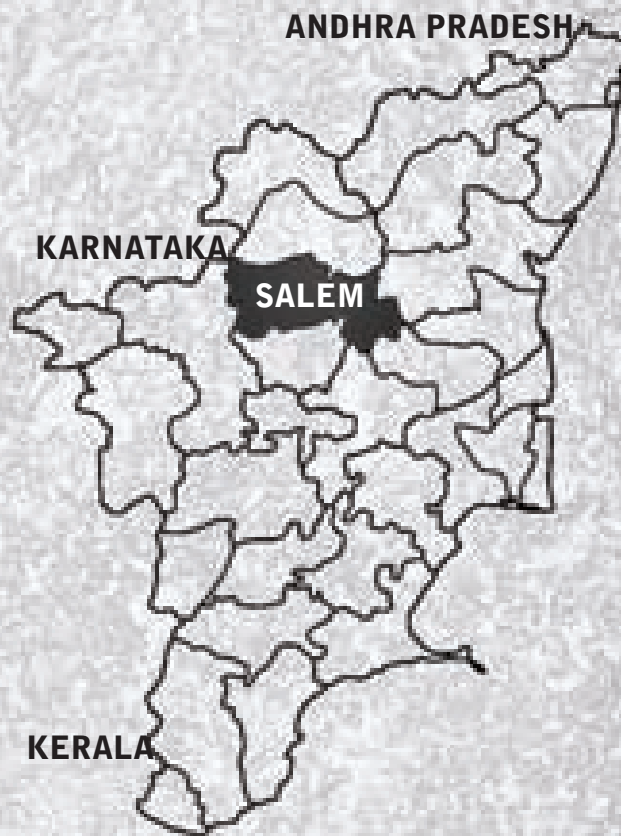
Mr. Krishna
Human Resources
Petrofac Ltd, Chennai



Mr. Prabhu Chari
Human Resources
Cognizant, Coimbatore



Swamy
Sugabonantha



Salem is accessible by Air, Road, from all major cities in India

The closest airports are Coimbatore, Bangalore.

Sona college is 1 km near by Salem Railway Junction
and 2 km from Salem Bus Station