# VIDYA GROUP OF INSTITUTIONS

THRISSUR

THIRUVANANTHAPURAM

@ VIDYA
seek
discover
lead
transform

VIDYA ACADEMY
OF SCIENCE AND TECHNOLOGY (VAS)
Thalakkottukara P.O., Thrissur, Kerala, India

VIDYA ACADEMY
OF SCIENCE AND TECHNOLOGY TECHNICAL CAMPUS (VASTTC)
Malakkal P.O., Kilimanoor, Thiruvananthapuram, Kerala, India

# CONTENTS

..If you have the
zeal
&
zest
we at VIDYA
can help you to reach your
zenith

# learning @
# VIDYA

VIDYA is a fine combination of some of the leading philanthropists, entrepreneurs and educationists who dreamt of creating a world class institution to cater to the growing global demand for professionals in Engineering, Technology and Management.

VIDYA aims to impart world-class knowledge and training to its students and continuously strive for

- Producing world class manpower
- Developing appropriate knowledge, skills and attitudes
- Establishing link with industry
- Creating an environment for research and advancement of knowledge, and
- Providing consultancy to the industry and public organizations

## Our
# Vision

Progress through Education

## Our
# Mission

To seek, to strive and to achieve greater heights in Engineering, Technological and Managerial Education and not to yield on quality of education

# About
# Vidya Institutions

Vidya International Charitable Trust (VICT) was constituted with a vision to provide state-of-the-art higher education and training to our younger generation who will be sought after by leading business houses worldwide.

Vidya Academy of Science and Technology (VAS) was established in 2003 and is situated in Thrissur, the cultural capital of Kerala. VAS is approved by AICTE and is affiliated to the University of Calicut. It is a notable school of Engineering with committed faculty, high quality infrastructure, teaching aids, and provides a serene atmosphere that complements academic life.

Vidya Academy of Science & Technology Technical Campus (VASTTC), Kilimanoor, Trivandrum is Vidya's second engineering college commencing its operation in 2013.

Vidya offers four year B.Tech Courses in the core engineering streams and post graduate courses in MCA and M.Tech.

Vidya Academy of Science and Technology, Kannur is the latest project of the Trust. The Kannur project goes a long way in fulfilling the long cherished dream of establishing centres of excellence in various parts of the State.

Vidya has been in the vanguard of innovation in technical education, and over the years has taken giant strides and transformed itself into a prestigious centre with its competent and committed faculty, high quality infrastructure and high technology teaching aids, and by providing a serene atmosphere that complements academic life.

Vidya has a holistic approach to education where academic training goes hand in hand with offerings that develop the body, mind and soul to prepare its graduates to be future leaders.

Our focus on quality education makes VIDYA unique, and we continuously strive to provide everyone at the Academy the means and flexibility to pursue his or her best ideas hence building a sense of confidence in them…

# Academic
# EXCELLENCE

- VAS ranks among the five top self-financing engineering colleges in Kerala.
- VAS ranks third among the most preferred self-financing engineering Colleges in Kerala.

## Recognition from Industry and Professional Bodies for VAS, Thrissur

- An ISO 9001 : 2008 Certified Institution to ensure your future in science and engineering and technology
- Institution of Engineers (India) has accredited all our B.Tech Programmes
- VAS was recognized as an "Advanced Partner Institute" under the Infosys Campus Connect Programme for the year 2013.
- Indian Society for Technical Education (ISTE) has recognized VAS for "The Chapter with New Programs & Membership" during the year 2011-12 and for successfully organizing the 22nd Annual Convention of ISTE Kerala Section.

## Accolades for
## Extra Curricular Activities at VAS, Thrissur

- VAS has won the University Table Tennis Men's Championship for the last six years
- VAS has won the University Tennis Women Championship for the last two years
- VAS has won the University Yoga Women Championship for the last three years
- VAS has won the NSS Top scorer award for the year 2012-13 from the Directorate of Technical Cell, Govt. of Kerala

# OUR
# PEOPLE

VIDYA attracts, recruits, and supports individuals who have the intellect, passion, energy and courage to tackle complex problems in new ways. Students enjoy virtually unlimited research opportunities and close interaction with accomplished scholars, and leaders from around the state

# LEADERS THRIVE @ VIDYA

## Students

VAS students are curious and passionate intellectuals. Their proven ability to excel in the most rigorous of academic environments has gained them entrance into a scientific community where they can pursue their dreams with focus and freedom.
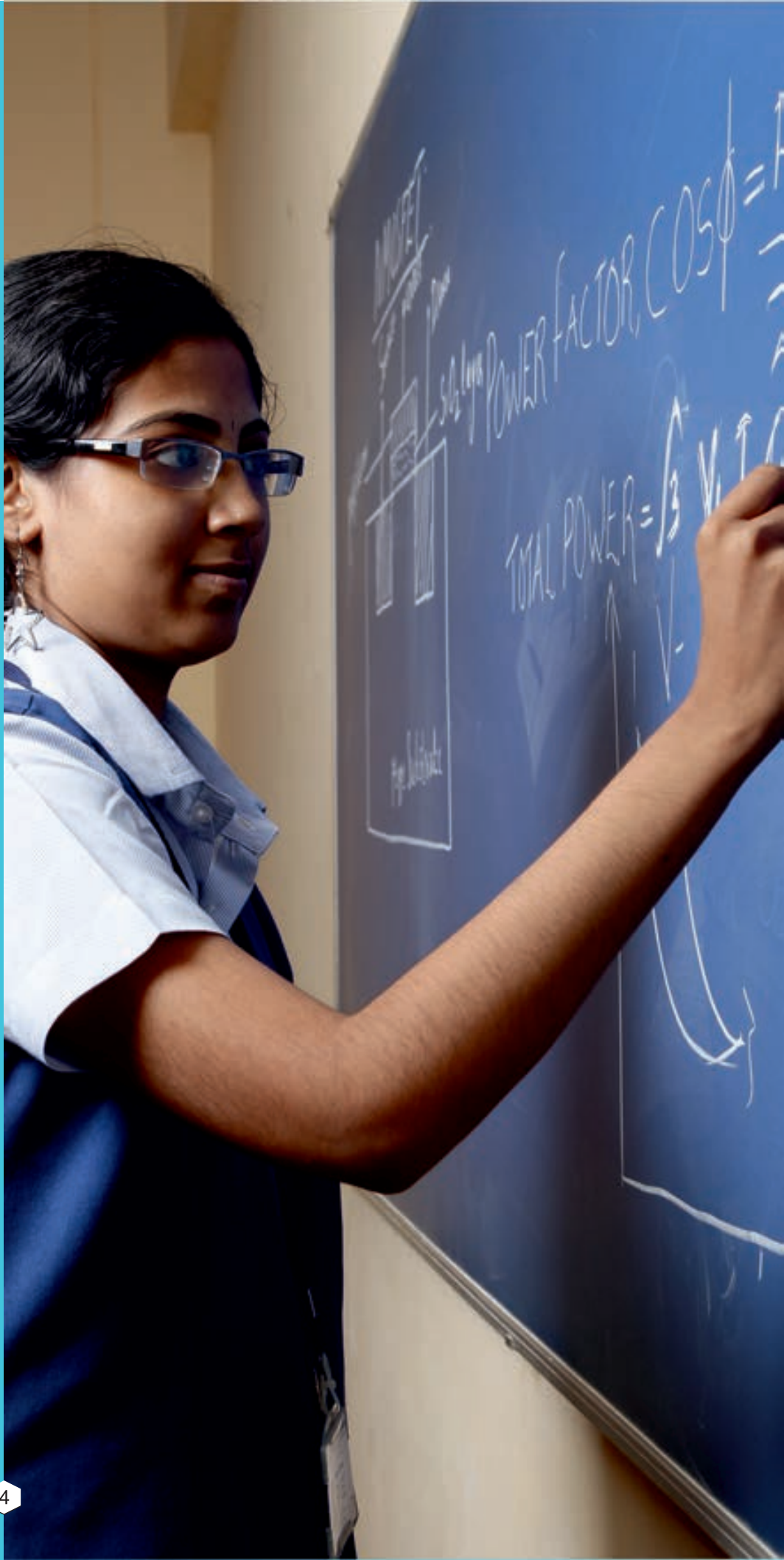
## VAS STUDENTS

### 2027 UNDER GRADUATE STUDENTS

### 250 POST GRADUATE STUDENTS

### 988 MEN

### 1039 WOMEN

# Student
# HIGHLIGHTS

## VAS Pioneers

Ms. Manasa Manohar, PE ( 2009-13 ) scored maximum (10) SGPA in the Fifth Semester Examination of the Calicut University.

Mr. Girish.T PE (2010-14) scored 10SGPA in the Sixth Semester Examination of the Calicut University SGPA is the weighted average of the grade points obtained during the semester.

Ms. Manasa Manohar, PE ( 2009-13 ) and Ms. Mrithu A.S, CSE (2009-13) were honored by Architects & Engineers Association with Certificate, Cash award & Memento for being the University toppers in the respective branches among the Engineering Colleges in Thrissur.

## University Toppers

Some of the VAS students who portray the intellectual potential, strength of character, and love of learning that have exemplified VAS since 2003.

Mr. PRABATH K, ME, IV Rank in the Calicut University B.Tech degree Examination

Ms.VIDYA B, EEE, V Rank in the Calicut University B.Tech degree Examination

Ms. BADHRIYA V ABDUL , CSE III Rank in the Calicut University B.Tech degree Examination

Ms. NITHA AYINIPPULLY NALARAJAN, CE Branch, (2006 -2010 ) – I$^{st}$ Rank in the Calicut University B.Tech degree Examination

Mr. SUNEESH, PE Branch, (2006 - 2010) - II Rank in the Calicut University B.Tech degree Examination

Mr. PATRICK LITON P. J, PE Branch, (2006 -2010) - III Rank in the Calicut University B.Tech degree Examination

Ms. ANJITHA. V, ECE, III Rank in the Calicut University B.Tech degree Examination

Ms. Reeba Job, CE Branch, (2006 -2010 ) – IV Rank in the Calicut University B.Tech degree Examination

Mr. Jerish P. J, PE Branch (2007-11) - I Rank in the Calicut University B.Tech degree Examination

Mr. Ambareesh P, PE Branch (2007-11) - IV Rank in the Calicut University B.Tech degree Examination

Mr. Gokul Raveendran - II Rank in the Calicut University B.Tech degree Examination

Ms.Vandana V - V Rank in the Calicut University B.Tech degree Examination


Manasa Manohar


Girish T


Mrithu A.S


Prabath K


Vidya B


Badhriya V Abdul


Nitha A Nalarajan


Suneesh


Patrick Linton


Anjitha. V


Reeba Job


Jerish P. J


Ambareesh P


Gokul Raveendran


Vandana V

# Excellence in
# FACULTY

VIDYA has some of the finest faculty; each one a specialist in a chosen field. Besides developing a forward-looking and contemporary curriculum, the faculty constantly strives to bring innovations in the learning process through research projects, real-world case studies, presentations, individual and group assignments, as well as field-work and mini-projects. The faculty employs a wide range of teaching methods to create a varied learning environment. These include: Structured Lectures, Seminars, Case Studies, 'Hands on' Computer work and Project Assignment.

# VIDYA has about
# 170 members as its full time faculty in engineering & allied subjects

## Some of our distinguished faculty members

Dr. P Pratapachandran Nair

Dr. M N Agnisarman Namboodiri

Dr. K B Maheswaran Namboodripad

Dr. Sudha Balagopalan

Dr. V N Krishnachandran

Dr. T N P Nambiar

Dr. Jiby Jose

Dr. Sasidharan Sreedharan

Dr. Mannil Mohan

Dr. Satheesh S

Dr. Vishnu S

Dr. Shobha Manakkal

# Faculty Participation in International Seminars/Conferences Abroad

Mrs. Deepa Mohan
Associate Professor

- Mr. Nitin Padmanabhan, Assistant Professor, EEE department attended the "E- Scientia Around The World Symposium" at Montevideo, Uruguay.

- Mrs. Deepa Mohan, Associate Professor, Dept of CE presented a paper titled "Assessment of factors influencing Academic performance in Higher Education" in International Conference on Technology and Business Management- 13 at American University in the Emirates, Dubai.

- Dr. Sasidharan Sreedharan (Professor & HoD, EEE department) served as a resource person for the Professional Development program "Power system SCADA & Grid Station Operation and management" at Asian Institute of Technology, Bangkok.

# VIDYA Scholarship & FINANCIAL SUPPORT

VIDYA is committed to the principle that no suitably qualified student should be deterred by his financial conditions from applying to VIDYA. Therefore, we offer an extensive programme of financial support to ensure that our students meet the cost of their education, regardless of their background.

VAS awards around 150 Scholarships worth ₹ 2 crore every year under "VIDYA Scholarship Scheme"

| SI | Name of Scholarship | Course | Number of Scholarships | |
|----|---------------------|--------|:-----------:|:-----------:|
| | | | VIDYA -TCR | VIDYA-TVM |
| 1 | Vidya Merit cum means Full Fee Scholarships for socially and economically backward students | B- Tech<br>Lateral Entry<br>MCA | 30<br>3<br>3 | 15 |
| 2 | Vidya Excellence Full Fee Scholarships for Entrance toppers | B- Tech | 5 | 03 |
| 3 | Vidya Competence 90% Fee Scholarships for Entrance achievers | B- Tech | 5 | 03 |
| 4 | VIDYA - AICTE Full Fee Waiver Scholarships for Girls, Handicapped and Weaker Sections | B- Tech | 30 | 15 |
| 5 | Vidya Merit cum means Half Fee Scholarships | B- Tech<br>Lateral Entry<br>MCA | 20<br>3<br>3 | 10 |
| 6 | Vidya Merit cum means Full Fee Arts & Sports Scholarships | B- Tech | 01 | 01 |
| 7 | Vidya Merit cum means Half Fee Arts & Sports Scholarships | B- Tech | 01 | 01 |
| 8 | Vidya PTA Merit cum means Scholarships by PTA | B- Tech | 01 | - |
| 9 | Vidya Alumni Merit cum means Scholarships by Vidya Alumini Association | B- Tech | 01 | - |
| 10 | Vidya Staff Club Merit cum Means Scholarships | B- Tech | 01 | - |
| | **Total Scholarships** | | **107** | **48** |



"Receiving a yearly VIDYA Scholarship has allowed me to enjoy the best four years of my life to the fullest"

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# Admission
## B.Tech , M.Tech & MCA Programmes

VIDYA  offers Undergraduate courses in B.Tech and Postgraduate courses in M.Tech and MCA

| B.Tech Courses | VIDYA ACADEMY OF SCIENCE & TECHNOLOGY THALAKOTTUKARA. P.O, THRISSUR DIST. ( Approved by AICTE and Affiliated to University of Calicut) | | | VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS MALAKKAL.P.O, KILIMANOOR, THIRUVANANTHAPURAM DIST. ( Approved by AICTE and Affiliated to University of Kerala*) | |
|---|---|---|---|---|---|
| | Intake | Lateral  Entry | Fee Waiver | Intake | Fee Waiver |
| Civil Engineering | 120 | 6 | 6 | 60 | 3 |
| Computer Science & Engineering | 120 | 6 | 6 | 60 | 3 |
| Electronics & Communication Engineering | 120 | 12 | 6 | 60 | 3 |
| Electrical & Electronics Engineering | 60 | 6 | 3 | 60 | 3 |
| Mechanical Engineering | 120 | 12 | 6 | 60 | 3 |
| Production Engineering | 60 | 6 | 3 | - | - |

*Awaiting University approval

## Post-Graduate Programmes at Thrissur campus

| | Intake |
|---|---|
| Master of Computer Applications (MCA) | 60 Seats |
| M.Tech in Computer Science & Engineering | 24 Seats |
| M.Tech in Power Electronics | 24Seats |
| M.Tech in Structural Engineering* | 24 Seats |
| M.Tech in Embedded Systems* | 24 Seats |

*Awaiting University approval

NOTE:

■ Admissions to the various courses are strictly on merit.

■ Capitation fees or donations of any kind are not collected at the time of admission or during the course of studies.

■ The college authorities or management have not authorized any person, consultant or agency for admissions. All are requested not to fall prey to bogus consultants or middlemen.

■ Candidates are also requested to visit the college website for further information
www.vidyaacademy.ac.in
www.vidyatcklmr.ac.in

## M.Tech Programme in
## Computer Science and Engineering at VAS Thrissur

M.Tech programme in Computer Science and Engineering is intended to train the students in both advanced areas in the core courses and specialized topics in the emerging technology fronts. Courses offered include Algorithms and Complexity, Compiler Design, Foundations of Information Security, Distributed Computing and Pattern Recognition. The project work in the final year is intended to equip the students to go deeper into their area of specialization.



**Head of the Department**
Col. M P Induchuodan (Retd.)
Professor & HoD



Dr. M N Agnisarman Namboodiri
Dean, P.G Studies

## B.Tech Programme in
## Computer Science and Engineering

The study of computing is the study of the process of abstraction and its power, the practice of design and method of best implementation, and mathematical theory of computation and its limits. The list of knowledge areas include Discrete Structures, Algorithms and Complexity, Computational Theory, Computer Architecture, Programming Language Theory and Implementation, Database Systems, Operating Systems, Net-centric Computing and Software Engineering. Emphasis is also given to hardware architectural design and software system design. The curriculum pays great attention to laboratory work to consolidate the theoretical concepts and their applications to solve real-life problems in diverse domains.

## M.Tech Programme in
## Structural Engineering
## at VAS Thrissur

M.Tech programme in structural Engineering is the highly sought out field of specialization in civil engineering. Training will be given in the analysis and design of modern engineering structures using mathematical and computational tools. It covers specialized topics such as Theory of Elasticity, Structural Dynamics, Finite Element Analysis, Earth quake resistant design, Theory of plates and shells, etc.

The Dept. of Civil Engineering has fully equipped laboratories for Surveying, Material Testing, Environmental Engineering, Geotechnical Engineering and Transportation Engineering with supporting computational facilities. Also we have highly qualified and experienced faculty members to train the students for taking up any challenge in field of Civil Engineering.



**Head of the Department**
Prof. V A Sudhakaran, M.Tech (IITK),
Professor & HoD



Prof. K V Leela, M.Tech
Professor

## B.Tech Programme in
## Civil Engineering

With the construction boom at its peak now there is ever-growing demand for civil engineers thought-out the world. In tune with the guiding principles of the Trust on quality education, our students are groomed as world class professionals. Accordingly the curriculum is designed to:

- Impart thorough knowledge in  subjects

- Develop capacity to identify engineering problems and solutions

-  Nurture management capabilities and leadership qualities through team work

## M.Tech Programme in
## Power Electronics
## at VAS Thrissur

This programme imparts knowledge in the field of power electronics and its application to electrical machines, drives, industrial equipments and power systems. It also gives hands-on experience through practical and project courses.

Power Electronics is an emerging area which is concerned with the application of fast developing electronics into electrical machines and power systems. This programme will provide the graduates with the knowledge base and the practical know-how to meet the challenges of the industry.



**Head of the Department**
Dr. Sasidharan Sreedharan
Professor & HoD



Dr. Sudha Balagopalan
Principal



Dr. T N P Nambiar
Visiting Professor

## B.Tech Programme in
## Electrical & Electronics Engineering

Electrical and Electronics Engineering in one of the core branches of engineering studies emerged from Electrical Engineering. The major thrust in this course is related to the basic principles and detailed analysis of different types of equipments and systems for generation, transmission, distribution and utilization of Electrical Energy. The programme also covers the study of electronic devices and circuits involved in measurement, instrumentation, control and protection of electrical equipments and conversion systems. Concept of computer and recent applications of computer based systems in design, analysis and efficient operation of power system to maintain quality and security have also been included in the programme.

## M.Tech Programme in Embedded Systems at VAS Thrissur

The objective of the course is to mould fresh electronics engineers and to upgrade working engineers into High Caliber Embedded System Designers by enhancing their knowledge and skills in various hardware and software design aspects of Embedded Systems. The course offers a range of topics of immediate relevance to industry and makes the students exactly suitable for industries engaged in Embedded System development. This provides an excellent opportunity for those who seek to engage in application research in this rapidly developing area.

## B.Tech Programme in Electronics & Communication Engineering

The principles and performance of electronic devices and circuits are introduced in the course. Design and analysis of different analog and digital circuits are considered in detail. The department has an excellent academic and support staff committed to research and teaching and well equipped laboratories with the most modern facilities. Besides providing strong fundamentals in basic Sciences and Engineering subjects, greater emphasis is made to enable our students to specialize in the rapidly evolving technologies like VLSI and Embedded Systems, Analog and Digital Signal Processing, Microwave and Mobile Communications etc. The department takes keen interest in organizing workshops, seminars, conferences etc on a regular basis.





**Head of the Department**
Prof. Jeeva K A
M.Tech, MISTE



Dr. P Pratapachandran Nair
PhD, Prof. Emeritus,



Prof. P C John, M.Tech
Professor

# B.Tech Programme in Production Engineering at VAS Thrissur

This branch of study is generally considered as an advancement of Mechanical Engineering focused on mass production of machines, equipment and other modern products in the most economic manner. Manufacturing and Management are the two main areas under Production Engineering.

## The objective of the programme is

- To produce young graduate engineers with professional skills suitable to be directly placed in modern multinational mass production companies.

- To understand design, plan, manufacture and control of various machines, equipment and products used in modern industry.

- To develop managerial skills and leadership qualities among young engineers

**Head of the Department**
Prof. Soolapani Varrier
M.Tech(IIT-M),MISTE, FIE

# B.Tech Programme in
# Mechanical Engineering

Mechanical engineering is perhaps the broadest of engineering disciplines, for it lies at the core of engineering design and engineering practice. Engineering is changing rapidly because of the coupling of globalization with advances in information technology, biomedicine, and nanotechnology, and mechanical engineering is the discipline that is leading this change. From the design of medical prostheses to the cooling of advanced computers, and from robot vision to computer-integrated manufacturing, the scope of mechanical engineering is growing at an accelerating pace. The Mechanical Engineering program at VIDYA seeks to develop engineering professionals who can both strengthen the core of the discipline and lead the profession in a time of rapid change.





**Head of the Department**
Prof. Soolapani Varrier
M.Tech(IIT-M),MISTE, FIE

Dr. K B Maheswaran Namboodripad
Visiting Professor

## Highlights of the Department activities

### IBM Software Centre of Excellence

The Computer Laboratory of the Department has been declared as the Software Lab of the IBM Software Centre of Excellence. This is a great recognition to the Lab with all state of the art computational facilities. VAST is the first institution under Calicut University to secure this distinction and the third College in Kerala State to have such a Centre.

### IBM Software Training

MCA students of Vidya get opportunities for training under IBM Certified Trainers in latest IBM softwares. There were two such training sessions for MCA students during the academic year 2010-11. The trainers were from Vinsys IT (Services), Pune.

### Competitive ambience

The Department provides several opportunities to acquire knowledge and to develop skills to excel in life and work. One such activity is an All-Kerala C Coding Contest, the third edition of which was completed in December 2012. The department organizes a unique contest to design the best website using Google-Sites every year to bring out the creative talent and the spirit of enquiry among the students. Paper presentations, seminars and presentation slides preparation contests are a few of the other similar activities designed by the department to attain the full potential of the students.



**Head of the Department**
Dr. V N Krishnachandran
M.Sc, Ph D, MISTE

## Master of
# COMPUTER APPLICATIONS
## at VAS Thrissur

(Visit Department website: http://mca.vidyaacademy.ac.in)

The Department was started in the year 2006. Within a short span of seven years the Department could establish itself as the best Computer Applications Department among all colleges affiliated to the University of Calicut which is clearly evident by the quality of students joining the College and also by the results in University Examinations. Based on the last ranks of students admitted under the General Merit quota in the MCA Entrance Examinations of Govt of Kerala, this Department is one of the top three Departments among all institutions in Kerala offering MCA programme.

# Our
# ALUMNI

Our graduates are spread across the globe developing successful careers built on their VAS experience.

VAS alumni continue to demonstrate the enterprising spirit they developed on campus. Many of our alumni turn their ideas into new companies, became successful entrepreneurs, managers, academicians and researchers. They also remain devoted to their alma mater - whether it's by mentoring current students or connecting with each other through the Career Network, giving to VAS to support programs and services, or visiting campus during Alumni Meet. Our Middle East alumni association has 130 members and is one of the largest alumni chapters of Vidya.

UAE chapter of
Vidya Academy of Science & Technology
Alumni Association. 2003-07 Batch.

"The VAS experience provided me with the analytical rigor to tackle tough problems, the creative mindset to find solutions in innovative ways, and the essential leadership skills to collaborate among brilliant people. It opened the doors on what I consider possible."

Vidya Academy of Science & Technology
(An ISO 9001 : 2008 Certified Institution)
(A unit of Vidya International Charitable Trust)
Thalakkottukara P O, Thrissur - 680501

GRADUATION CEREMONY 2012

**Dr. Pramod Khargonekar,** University of Florida during EPSCICON 2012

## Vidya Academy of Science and Technology, Thrissur
## Placement Status



Year / Pass out Batch **-->**
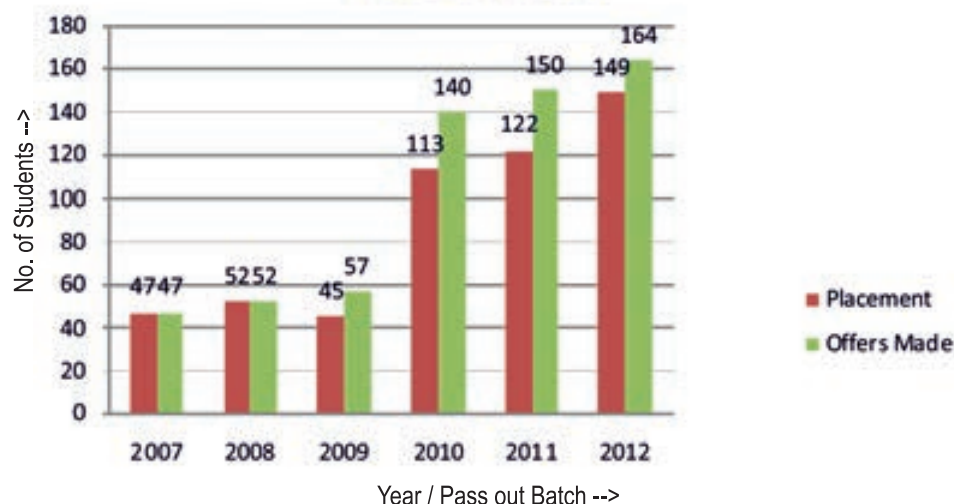
### Head of Placement & Training Cell

**Mr. Paul J. Chakola,** MCA

Formerly

● Over 15 years of Software Industry experience for some of the leading companies like ICICI, 3i Infotech.
● Project Manager with MASTEK Ltd., Mumbai.
● Certified Project Management Professional.

# VIDYA
# Training &
# Placement Centre

■ The Training and Placement Centre is committed to assisting undergraduate and post-graduate students with career planning, including career exploration and job search strategies for full-time employment, internships and related opportunities.

■ We offer support at all stages of career development for students from exploration of interests and career options to job hunting specifics such as mock interviews and salary negotiation techniques.

■ We provide program of career exploration workshops, job search workshops, and individual counseling sessions to provide the information and personal support that students require as they make and implement decisions about their careers.

# Developing skills,
# qualities and attributes
# sought by employers

■ The intellectual rigour of our courses and intensive education provided through small-group teaching in supervisions promote independent learning and help students develop transferable skills which are highly valued by employers.

■ Involvement in some of the student clubs and societies allows development of team working, entrepreneurship, communication skills and commercial awareness. There is also an extensive programme of skills training specifically designed for graduate students.

| Year | Placement | Offers Made |
|------|-----------|-------------|
| 2007 | 47 | 47 |
| 2008 | 52 | 52 |
| 2009 | 45 | 57 |
| 2010 | 113 | 140 |
| 2011 | 122 | 150 |
| 2012 | 149 | 164 |

# Recruiters @ Vidya

Over the last few years Vidya Academy of Science and Technology has been participating in the placement drives of the following leading companies. (List in alphabetic order).

Aarbee Structures
Al Reyami Steel Constructions, Dubai
Assyst International
COSTFORD
Cybernet Slash Support
Fly TXT
HCL B-Serve
ICAD, KSA
Infosys
Larsen & Tubro
NeST Technologies
NMS Works Ltd.

Poornam Infovision
Processor Systems India Ltd.
Reliance Communications
Shanti Gears
Shobha Developers
Spectrum Soft Tech Ltd.
Sun Tech
Sutherland
Syntel
TCS – Tata Consultancy Services
TVS Sundaram Fasteners
UIT CADD
Wipro BPO

# STUDY AT VIDYA –
## Earn Degree From An AMERICAN UNIVERSITY

Our programmes, such as the International Student Exchange Programme, that give students an opportunity to study abroad for two years at State University of New York at New Paltz. VAS offers a **"twinning program"** for the students of EEE,ECE & CSE courses, who after completing their first two years at VAS can opt to continue their III and IV year with the **State University of New York** and obtain a much sought after B.S Degree.

Mr. Alwin Davis
who secured BS degree from
State University of New York
as part of the
VIDYA TWINNING PROGRAMME

State University of New York

# Research

Research at VIDYA investigates innovative and interdisciplinary solutions to some of the most pressing problems in science today.

Research at VIDYA is not limited to faculty. VIDYA students are encouraged, from their first year, to engage in research. Students at the undergraduate and graduate levels are seen as an integral part of the research team.

- VIDYA provides ultra-modern research facilities to its students to carry-out research as a part of their academics.

- The faculty and students are also involved in consultancy projects which provide tremendous exposure to the students.

- The Institute has attracted significant research grants from various Central and State government agencies

## Contribute to cutting-edge research



## Ongoing Research Projects

- Development of a Solar Integrated Collector Storage System incorporating PCM based combined storage unit suitable for domestic application funded by KSCSTE

- Cold Start Emission Control in SI Engine- Phase Change Material (PCM) Based Pre-Heated Catalytic Convertor funded by IE(I)

- Gesture Recognizer and Interactive Mouse supported by IE(I)

- "Web-based Electrical Machine Laboratory: A low cost implementation of SCADA based system" for Undergraduate students Experiments supported by IEEE

# Access to
# excellent FACILITIES

VIDYA facilities integrate eminent scholars, cutting-edge instruments and state-of-the-art facilities, offering unparalleled expertise to the global community

VIDYA plans all its institutions as top-tier research stations and our faculty and the students who work with them use state-of-the-art equipments to carry out their research. Plus, our labs are designed to prepare professionals for the 21st century, when thinking and working across traditional disciplinary boundaries is vital. The lab setup allows students to investigate real-world scientific problems by integrating a variety of analytical approaches.

## Class Rooms and Laboratories

- Class Rooms equipped with Audio-Visual Facilities
- Laboratories equipped with State-of-art Equipment
- Dedicated and qualified laboratory technicians and staff
- Specialized laboratories established in several frontier thrust areas of Research and Development
- Laboratories Certified to carry out Testing & Calibration
- Language Laboratory

## Library

- Excellent Library Facilities catering to needs of curriculum, research and general reading. Access to over 1000 online journals through IEEE, SPRINGER, SCIENCE DIRECT, McGRAW HILL-ACCESS ENGINEERING, ASTM DIGITAL LIBRARY, J-GATE.
- Access to over 22,000 books, 100 periodicals and 1500 CD ROMs, about 1000 full text e-journals.
- An exclusive library block at Thrissur with an area of about 4000 sq mt with digital knowledge centre of 200 terminals is under construction

## Computing

- Robust Networking solution & Wi-Fi campus with CISCO devices
- Powerful servers from HP/IBM for efficient data management
- Highly sophisticated surveillance and access control system
- High end biometric system/Online Attendance
- 4 IBM servers, 10 HP workstations
- 750 terminals with latest Core 2 Duo, Dual Core and Quad Core computers
- Internet facility with 24Mbps
- High end firewall security featured network
- Comprehensive multi-campus ERP system

# Student
# SUPPORT

At VIDYA, we ensure the success of our students through a variety of support centers and programs.

### Extra-curricular and co-curricular activities

·Extra-curricular and co-curricular activities are a vital part of the educational and developmental process. VIDYA Campuses encourages and support involvement of students broadening and enriching their college experience.

### Health & Well-Being

As an educational institution VIDYA seeks to provide a campus environment and a range of programs that sustain and enhance the physical, psychological and emotional health of all students ,faculty and staff, assisting them in achieving an appropriate balance between work and personal/family life.

### Tutors

The College supports and values each of its students extensively. Therefore, students who are struggling with a particular problem or feeling a bit lost and lonely won't go unnoticed. Within your College you have a number of people looking out for your academic and personal welfare, and supporting you throughout your time in the campus.

### Counselling

Personal, non-academic counseling is provided by a trained counsellor to help and motivate the students and to attend to their overall developmental needs which helps to maintain and enhance their psychological, emotional, and relational well-being

### Excellent hostel facility

At VIDYA  we understand the importance of finding the right living environment to help you settle in, study effectively and enjoy a good social life. That's why we provide a complete package - excellent in a well-supported teaching, and accommodation where you can create a real home away from home.



### Campus Life

VIDYA's Students explore their talents and interests and build life long memories by participating in VAS's 25 plus clubs that encourage and support students' innovation, curiosity and humor.

At VIDYA, we don't just teach leadership, we practise it

There are many avenues for students at VIDYA including

- "VEGA" is the annual science and technological fest of VAS which gives opportunity to discover, question and take part in scientific activity and continues to provide a wholesome platform to celebrate the scientific temperament of the youth.

- "ADVIKA 2012" is the College Arts Festival

- 'AKSHAYA AGNI, a project contest for engineering students to showcase their practical talents which covers a very wide range of topics including electrical power generation, transmission, distribution and utilization.

- "EPSCICON 2012"  International Conference on Power, Signals, Control and Computations

## GANDHIAN YOUNG
## TECHNOLOGICAL INNOVATION AWARD -2013

The service done by technicians on distribution power lines has a high risk of accidents. One common dangerous situation, which the technician is exposed to, is when they pass over the minimum security distance. According to the survey report of Kerala State Electricity Board (2009), more than two people per month lost their life due to electrocution from the overhead power lines. As upcoming Electrical Engineers we thought on above situation and studied. This project is based on a development study for an electronic device capable of detecting the electric field coming from high voltage distribution power lines. It is small enough to be installed on security helmets. This way, it can be classified as individual security equipment.

**COMPREHENSIVE PROTECTION**



Profile: These are final year B.Tech Electrical Engineering students from Vidya Academy of Science and Technology, Thrissur, Kerala. This is their B.Tech 'mini project'.

Inspiration: Many power personnel have died by electrocution due to wrong perception on the live nature of lines because of miscommunication. Just before we chose this project, one of our seniors fell victim and was prosecuted for 2 deaths, one an overseer who got onto the tower under the impression he was working on a line which had never been energized and second, the fireman who climbed up to bring the man down and also got electrocuted. This senior and our supervisors were insistent that we detect electric field and not magnetic field and we came up with such a circuit.

Future Plans: We wish to make it more comprehensive including more eventualities and including sophistication such that it is easier to use, cheaper and aiming at a situation when even procedural lapses do not result in loss of lives.

RAMDAS M U, Sonu Unnikrishnan K, Ashfaq Muhammed T, Shahin.T.A, Sreelakshmy Suresh and Sruthy Received Gandhian Young technological Innovation Award -2013

# Sports and games

"Moulding technocrats with sportsmanship". The sports & physical education programme at VIDYA emphasises development of health consciousness and sportsmanship.

The physical education programme at VAS has been well designed and administered with the purpose of providing optimum sporting exposure to student community. The students from VAS have made significant contributions at the university, state and national levels.

- Ms.Ann Tanya Maria (Table Tennis), Ms.Reyma Joy (Lawn Tennis) & Ms.Aswathy M Arun (Yoga) represented the University of Calicut in the All India Inter University Championships in their respective disciplines during the academic year 2012-13.

- VAS Lawn Tennis women team secured Calicut University championship for the last two years.

- VAS Table Tennis Men and Women teams secured second position in the Calicut University Championships.

- VAS Chess & Yoga team secured third position in the Calicut University Championships for the last two years.

- Other than these achievements VAS teams attained several champion titles in various inter collegiate tournaments.

**Dr. S S Mantha (Chairman AICTE)**
**lighting the lamp during the inaugural session of 22nd Annual State Convention**
**of Indian Society of Technical Education held at VAS**

## The student and faculty chapters of the following International and National Professional societies have a major presence in the Institute:

- Institute of Electronics and Electrical Engineers (IEEE) Chapter
- Indian Society for Technical Education(ISTE) Chapter
- Computer Society of India(CSI) Chapter
- Institution of Electronics & Telecommunication Engineers (IETE) Chapter



**VAS Lawn Tennis women team with Calicut University championship**

# Student societies at VAS

Currently, there are about 25 clubs, societies and groups to choose from. The following are just a few examples of what's on offer.

- Cultural and Sports Club
- Entrepreneurship Club
- Fossers Club
- Energy Conservation Cell
- Rotract Club
- Eco Club
- National Service Scheme (NSS) for community services
- Fossers culb (Free and open source software)
- Toastmasters Club
- Music Club
- Dance Club

## VAS has hosted many scientific luminaries over the years, including

- Dr. Biswa Nath Datta
  Northern Illinois University

- Padma Bhushan Dr. Thomas Kailath
  Standford Univeristy

- Dr. Shankar P Bhattacharyya
  Texas A & M University

- Dr. M Abdul Salam
  Hon'ble Vice Chancellor,
  University of Calicut

- Dr. R V G Menon
  Academic and Energy consultant

- Dr. Promod Khargonekar
  Univeristy of Florida

- Dr. Tessy Thomas
  (Scientist DRDO and Director of
  Agni 5 Missile Project of India)

- Er. E Sreedharan
  Principal Advisor - DMRC

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Akhil K Vijayakumar

Paulose T

# Sustainability at VIDYA

VIDYA is developing a campus culture that supports, enhances and promotes sustainability. It aims to raise consciousness of 'green practices' among students, faculty and staff. VIDYA has a far-reaching Sustainability Plan, unique initiatives in its buildings and ground operations provide opportunities for students to contribute their time and energy to "living green at the College."

## Energy

VIDYA is committed to provide predictable, cost effective, clean energy to support research and education while minimizing its impact on the environment and reducing dependence on non-renewable energy. The Energy Management team is finding innovative ways to incorporate these principles into campus operations and implementing energy conservation measures.

As part of Energy conservation cell, Mr. Paulose T, EEE-S8 and Ms. Arathi C, EEE-S8 won first and third position respectively in the paper presentation competition organized by KSEB Officers Association (KSEBOA).

Mr. Akhil K Vijayakumar ( S8 ME) secured first prize in State level Seminar series on ' SAVE ENERGY, SAVE ENVIRONMENT" conducted by KSEB Engineers Association
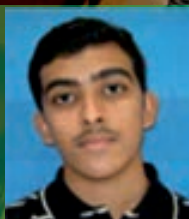
# VIDYA Management
## SPREADING WINGS

### BOARD OF MANAGEMENT
VIDYA INTERNATIONAL CHARITABLE TRUST (VICT)

Inspired by philanthropic urge and motivated by social concerns, Vidya Academy of Science & Technology has been established by Vidya International Charitable Trust (VICT). The trustees are financially strong entrepreneurs, educationists and philanthropists committed to establish and develop the institute into a world-class education center.

VICT in its mission to propel higher education in backward regions of kerala, is now setting up similar institutions in various parts of Kerala horizontally deploying the good practices and success of VAS.

Admissions to our new colleges in Kilimanoor of Trivandrum district is slated to commence in 2013 and in Kannur by 2015.The Board of Trustees is responsible for the overall administration of the Trust and its activities. An Executive Committee, comprising 11 members, manages the educational institutions of the Trust.

VICT offers free education to bright but financially weaker students to complete their studies. Apart from scholarship enrolments, VICT also extends financial assistance to the economically weaker students studying in Higher Secondary levels for undergoing entrance coaching with leading training institutes in Thrissur, Alleppey, Kollam and Trivandrum districts.

### Executive Committee

| | |
|---|---|
| Er. P K Asokan | Chairman |
| Dr. V S  Ajaikumar | Vice- Chairman |
| Mr. Sabu Soumain | Secretary |
| Er. B Sreekumar | Joint Secretary |
| Mr. Samson Checkove | Treasurer |
| Mr. K K Vidya Dharan | Executive Member |
| Er. K G  Sukumaran | Executive Member |
| Er. K K  Thilakan | Executive Member |
| Er. K P R Vijayan | Executive Member |
| Mr. Narayan Muraleedharan | Executive Member |
| Mr. V K Murali Dharan | Executive Member |

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# The 'VIDYA' ADMINISTRATION

## VIDYA INTERNATIONAL CHARITABLE TRUST

### Er. G Mohanachandran, Executive Director
Positions Held
- Deputy Chief Engineer, Kerala State Electricity Board

### Er. R Devarajan, Project Director
Positions Held
- Chief Engineer, KSEB
- Senior Manager, EMCO, Abudhabi

### Mr. Suresh Lal, Finance Director
Positions Held
- FVP- Operations, JP Morgan chase,Tokyo

### Mr. V S Dinamony, VICT Co-ordinator

### Mr. T B Ramachandran, VICT Co-ordinator

## Vidya Academy of Science & Technology, Thrissur

### Dr. Sudha Balagopalan, Principal

Positions Held
- HoD,Electrical & Electronics Engineering Dept, VAST
- Scientific Officer at Bhabha Atomic Research Centre (BARC), Trombay
- Projects Manager, Kuwait

### Dr. V N Krishnachandran, HoD- MCA & Vice-Principal

Positions Held
- British Council Scholar in Louhborough University of Technology, UK
- Head of Department of Mathematics, Govt. Engineering College, Thrissur
- Principal, Government Victoria College, Palakkad

### Dr. P Pratapachandran Nair, Prof. Emeritus

Positions Held
- Joint Director of Technical Education, Kerala
- Principal, College of Engineering, Chengannur and VAS

### Dr. M N Agnisarman Namboodiri, PhD, Dean- PG Studies

Positions Held
- Professor, Bucknell University, Pennsylvania, USA
- Head, Department of Computer Applications, Government Engineering College, Thrissur

### Lt. Col ( Retd.) C K Babu, Administrator

## Vidya Academy of Science & Technology Technical Campus, Trivandrum

### Dr. Sobha Manakkal, Principal

Positions Held
- HoD & Dean Mohandas College of Engg, TVM
- HoD MES College of Engineering, Kuttipuram
- Vice-Principal, IES College of Engineering, Thrissur

### Prof. V S  Lee, Vice-Principal

Positions Held
- Principal, SN College, Kollam

# STEERING COMMITTEE

Sri. TN Jayachandran, IAS(Rtd)
Dr. VM Manoharan
Sri. DP Vijayan,
Er. R. Devarajan
Mr Sureshlal
Er. G. Mohanachandran



VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY
TECHNICAL CAMPUS (VASTTC), Trivandrum

## Advisory board

Mr. P. M. Abraham, IAS (Retd)
Former Secretary, Ministry of Surface Transport, Govt of India

Prof. Abdul Karim Musaliar
Professor, TKM Institute of Management,Member of TKM College Trust.

Padmashri Dr. N. Balakrishnan Nair
Former Chairman, State Committee on Science, Technology &
Environment

Mr. P. V. Chandran
Managing Editor, Mathrubhumi printing and publishing company, Kerala

Mr. T. N. Jayachandran, IAS (Retd.),
Former Additional Chief Secretary, Govt. of Kerala, Former Vice-
Chancellor, University of Calicut and CUSAT

Dr. V.M. Manoharan
Former Principal of Government Colleges of Thrissur, Chittur. Member of
the Syndicate, University of Calicut.

Er. M. N. Prasad
Former Chairman, Railway Board of India and Ex officio Principal
Secretary, Ministry of Railways, Govt of India

Dr. K. R. Rajappan
Director and Senior Plastic Surgeon, Specialist Hospital, Kochi

Mr. A. R. Sankaranarayanan IRS (Retd)
Former Managing Director, Steel Authority of India

**Knowledge expands Leaders thrive Change begins Possibilities emerge Boundaries disappear @ VIDYA**
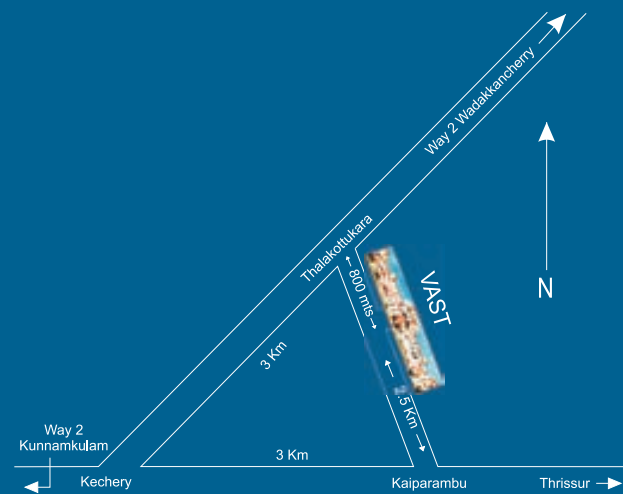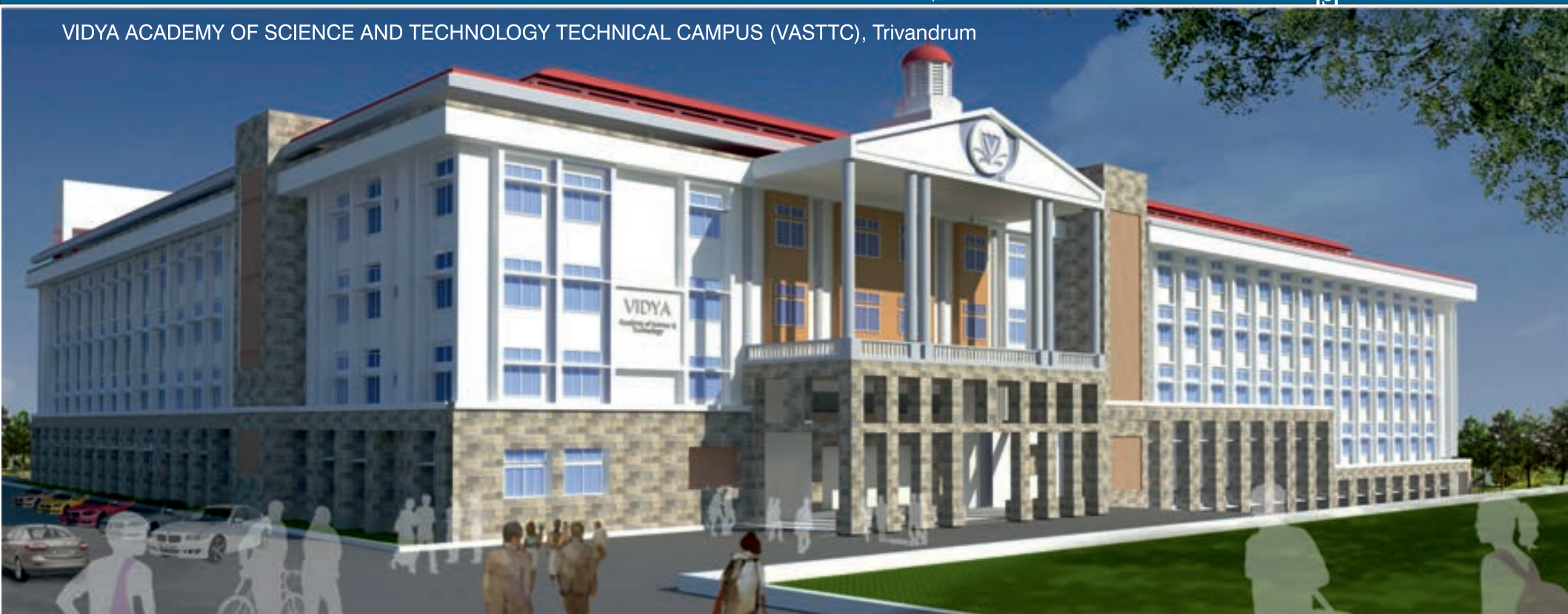
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INSTITUTION CODE VAS

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