



Tech world rewritten

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GISAT SPECTRUM

GURUDEVA INSTITUTE OF SCIENCE AND TECHNOLOGY, KOTTAYAM

MISSION

"Progress through education and emancipation for all". Urging one and all to get enlightened and empowered by attaining knowledge, moulding young technical professionals in a throbbing academic and intellectual environment.

VISION

To ensure world class technical education within the reach of a discerning young generation and to pave a fruitful path for them towards all round development.

MANAGEMENT

GISAT is managed by a Board of Trustees of SN Trust, Kottayam under the guidance and patronage of the Hon.Gen Secretary of SNDP Yogam, Shri. Vellappally Natesan.



Sri. M. Madhu
Chairman
Sree Narayana Guru Trust



Sri. A.G. Thankappan
Secretary
Sree Narayana Guru Trust

Principal's Message



Dr. K. P. Mohandas
Principal

We, the Management, staff and students of Gurudeva Institute of Science and Technology (GISAT) at Vennimala are very elated on the occasion of the release of the first issue of the GISAT Spectrum, a publication of the college to assess our achievements and project ourselves among those who are involved in the spread of Technical

Education so as to let them know what we are, what we are striving at for the welfare of the students in particular and the society in general.

The recent events and concerns raised from different quarters about the falling standards in education have raised many questions in the minds of many. The root causes of the fall in standards are to be addressed to and remedial actions sought after. The role of the students, parents and the institutions have to be assessed by experts and responsibilities fixed. A whole hearted approach is crucial to reinstate the confidence of all concerned.

We at GISAT are well aware of our responsibilities and are continuously striving to give quality education to the students.

Many individuals have put in their

best effort in bringing out this issue. I extend my sincere appreciation for their cooperation. I acknowledge gratefully the effort of the chief editor in visiting Vennimala to interview the senior citizens there and thereby to update the historical facts related to this place. We are confident that this venture will gain greater momentum in the future and are looking forward to bring out more issues of GISAT Spectrum. ■

Academic Director



Prof. C Radhakrishna Pillai

GISAT A Brief History

Sree Narayana Guru Trust (S.N Trust) Kottayam, started this engineering college by the name Gurudeva Institute of Science and Technology (GISAT), in October 2010, to impart technical education to the aspiring youth in order to gain an illustrious career. GISAT is approved by AICTE and affiliated to M.G University, Kottayam. With an aim to illuminate young minds, the trust promises to offer technical education that stands at par with the best available, through its conspicuously good infrastructure and competent faculty.

Courses offered

GISAT offers B.Tech courses in five engineering disciplines, each having 60 seats:

- ▶ **CIVIL ENGG. (CE)**
- ▶ **MECHANICAL ENGG. (ME)**
- ▶ **ELECTRICAL AND ELECTRONICS ENGG. (EEE)**
- ▶ **ELECTRONICS & COMMUNICATION ENGG. (ECE)**
- ▶ **COMPUTER SCIENCE AND ENGG. (CSE)**

LOCATION

GISAT is located in an extremely serene and exotic area bound by nature's beauty, on the pious hills of Vennimala, spread over twelve acres, about 10 kms east of Kottayam town. The land is a blessed one and historically significant for its treasure of legends connected with the great Kapila Maharshi, who is believed to have lived on this hill and received enlightenment through his deep meditations, within a cave and is frequently visited by tourists from all over. It is the land of the very famous Rama-Lakshmana temple, which has its origins in the period of the Chera Dynasty (600 AD and 700 AD) and is said to have been built under the instruction of Cheraman Perumal Kulasekhara Verma, to pay homage in memory of Lakshmana, who was sent by Lord Rama to Vennimala, to defeat the demons who harassed the ascetics, thus earning the place, yet another name, 'Vijayadri'. It is our great privilege to spread enlightenment through knowledge, to the young aspiring engineering youth, on this very land of Vennimala, which has been the seat of knowledge for generations together.

LIBRARY AND LABORATORIES



With regard to the infrastructure, GISAT has been planned out by expert architects, in not only providing it with aesthetic prominence but also with a view to provide the students with a well-suited atmosphere, to be academically inclined. The Central Library, has one of the finest collections of latest engineering publications, fully computerized using Grandha software. The collection is replete with more than what is stipulated by the AICTE. Reprographic Services and filing of the previous years' question papers are also undertaken. The laboratories provide the best available facilities to fulfill all course requirements in the prescribed syllabus. Computer Science department is well equipped with more than 150 terminals having higher specifications and licensed software and high end network devices providing good connectivity within the campus. To enhance the communication skills of students, a well equipped language laboratory has been set up that can accommodate more than 20 students at a time.

FACILITIES

Hostel

Hostel facilities for gents and ladies are made available. The gents hostel is situated at Thalappady, which is 5 kms from GISAT, under the care and supervision of the Chief Warden. It can accommodate about hundred students and has recreational facilities. Food is provided at a subsidized rate. Study hours are strictly adhered to.

The ladies hostel is situated close to the GISAT campus in a safe and secure environment. The chief warden along with the resident tutors are in charge of the inmates of the hostel.

Canteen

The college has within the campus a full fledged canteen providing quality breakfast and lunch at reasonable rates.

Transportation

GISAT provides travelling convenience to its students and staff, with the help of a fleet of buses that can comfortably accommodate all the employees and students and make the campus



The routes covered by our buses are;

1. Changanacherry-Karukachal-Pampadi-GISAT
2. Kottayam-Ettumanoor-Kidangoor-Manarcadu-8th mile-GISAT
3. Kottayam-Kanjikuzhy-Puthupally-Payyapady-GISAT
4. Kottayam-Kanjikuzhy-Manarcadu-Boys Hostel-Payyapady-GISAT

More routes will be covered in this academic year

Co Operative Society



A college co operative society has been initiated and is functioning smoothly, to cater to the needs of all the staff of GISAT. All stationary items along with text books are available in the society.

CAREER GUIDANCE CELL



Mr. Sreekumar, P.R.O of the M.G University, inaugurating Career Guidance Cell

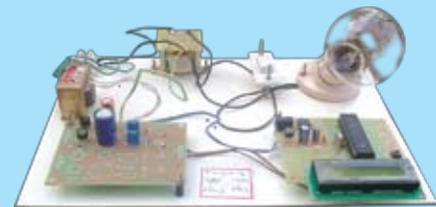
A career guidance cell, was inaugurated on 13th February 2012 by Mr.Sreekumar,P.R.Oofthe M.GUniversity,Kottayam, as the chief guest of the occasion. Under the auspice of career guidance cell,a technical talk was delivered by Mr. Jyothish Varghese, Product Engineer – Thermal Design, BHEL, Trichy on 17th Feb 2012.



It has been formed with the sole purpose of getting our students ready to face campus recruitment and interviews that would effectively place them in a safe career zone.



YUVA MASTERMIND is a joint venture of Malayala Manorama and Amal Jyothi College of Engineering promoting technical innovations in all fields of engineering. From among the twenty five selected projects, GISAT's ABC (Automatic Bill Calculator) energy meter, was one. The project was formed under the able leadership of Mr. Sarath K.S, Asst.Professor, Electrical dept. The students involved in it are Mr. Kumaresan C S and Mr. Nikhil S Muthukattil.The project has also been awarded a cash prize in 'Cynosure', technical symposium conducted by SJCT, Palai.



PARENT – TEACHER ASSOCIATION

The PTA was formed and is presently working for the well – being of the students and the institution. It gives a platform to the parents and teachers, to interact and come up with constructive ideas to prosper both the students and the college as a whole.



ANTI RAGGING CELL

GISAT has formed this cell in compliance with the directives from different institutions and establishments. As per the latest policy of the Government and of the honourable Supreme Court, on the Anti-ragging measures, it is mandatory that the students submit affidavits stating that they would abide by the rules. The college has formed an anti-ragging committee to keep indisciplinary activities under check.

DEPARTMENTAL ASSOCIATION

CIVIL ERA (CERA)

It was inaugurated on 2nd March, 2012. Mr. R Unnikrishnan, Chief Engineer, Irrigation and Administration, was the chief guest.

ASSOCIATION OF COMPUTER SCIENCE ENGINEERING PROFESSIONAL THREADS (ACSEPT)

Has been formed, with an aim of coordinating the curricular as well as co-curricular activities of Computer Science students in the college.

The following softwares developed by the department, are on the testing phase:

GISAT Attendance Management System (GAMS)

It is a fully automated student attendance management software for tracking daily attendance of the students and generating consolidated monthly attendance reports.

GISAT Leave Tracker

It is an automation software designed for tracking the leave of staff of the organization.

GCARE

It is a website developed for maintaining and extending services like blood donation

“Opportunity is missed by most people because it is dressed in overalls and looks like work”

- Thomas Edison

FACULTY ACTIVITIES

Mr. Sarath K S, Asst. Prof in Electrical and Electronics Engineering dept. presented a paper titled “An isolated parallel LLC with a Boost circuit for variable DC supply” in an International Conference on Electronics and Communication Engineering (ICECE 2012) on 6th April 2012, at Chennai.

Mr. Kiran G Kumar, Asst. Prof - Computer Science & Engineering dept.

Attended a 2-week ISTE workshop on “Software development techniques” conducted by IIT Mumbai, and secured 84% marks in the tests conducted as part of the workshop.

Attended a 2 week workshop on “Research Methodologies” conducted by IIT Mumbai.

Attended a 2 day workshop on “Latex” conducted by SPACE, Trivandrum at Amal Jyothi College of Engineering, Kanjirapally

Mr. Nandakishore PVR, Asst. Prof - Mechanical Engineering dept, attended a 2-week workshop on “Heat Transfer” conducted by IIT Mumbai.

Mr. Arun P Kuttappan, Asst. Prof - Computer Science dept .

Attended a 2 week workshop on “Research Methodologies” conducted by IIT Mumbai.

Attended a 2 day workshop on “Latex” conducted by SPACE, Trivandrum at Amal Jyothi College of Engineering, Kanjirapally

M. G. YOUTH FESTIVAL –SARGODAYAM 2012

Our students participated in the M.G University Youth Festival 2011-12 “Sargodayam” held at Thiruvalla, from Feb 29 to March 04, 2012. They took part in Light Vocal India, Classical Vocal, Margamkali, Oppana, Thiruvathirakali, Essay writing, Poetry writing , Skits and Mime competitions.



Sree Narayana Gruru Trust, Kottayam

1. P. G. Radhakrishnan Memorial Sree Narayana College, Channanikkadu.
2. Sree Narayana Arts and Science College, Kumarakom.
3. Sree Narayana Public School (C.B.S.E), Channanikkadu.
4. Gurudeva Institute of Science and Technology (GISAT), at Puthupally.

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Prof. Rajasekharan Nair
HOD, Dept of Civil Engineering
(Former Chief Engineer of the Government of Kerala Irrigation Department and former Co-Ordinator of the National Hydrology Project)

NATIONAL HYDROLOGY PROJECT

The National Hydrology Project of the Ministry of Water Resources Government of India envisages the assessment and utilization of data related to water resources in India. The project is implemented with the financial assistance of the World Bank. The main functions of the project are to establish a water resources data collection network throughout the nation, collection of data on a regular basis, creation of a national database of hydrological data and finally development of a decision support system using the national database available. It includes the creation of a national water resources map also. The project was split into 2 phases. In the first phase renovation and strengthening of the existing data collection network was envisaged. The data collection network that existed was using age old instruments like manual rain gauges and stream measurement techniques. In phase I of the projects these were replaced with instruments like automatic rain gauge, digital water level recorder, advanced stream measurement equipments like cableways, boat outfit and bridge outfit.

In Kerala phase I is completed. Data centers were established in Thiruvananthapuram and Thrissur. Our data collection network has been renovated and data collection is in progress. The data collected will be validated with other agencies like CWC, CGWB etc and validated data is being uploaded to National Database. The validated data is available for all concerned including educational and research institutions for research purpose.

The culmination of the Project is in development of a decision support system, which is a software to be used for interpretation of the hydrologic data collected over a long period under various scenarios and take decisions on viability and feasibility of new projects, disaster mitigation, prevention of salinity intrusion, crop pattern management , ground water monitoring and management etc. The Development of Decision support system is in progress now under phase II.

INDUSTRIAL VISITS

An IV was conducted by the Civil and Mechanical Engineering departments to Banasura Dam and Nallalam diesel power plant respectively.