

Govt.
Allotment Code:
VML



**NBA & NAAC
Accredited**

NBA : B.Tech CE, CSE, EEE & ME



**VIMAL JYOTHI
ENGINEERING COLLEGE**

CHEMPERI - KANNUR

Patron



His Grace Mar. George Njaralakatt
Archbishop of Thalassery

Chairman



His Excellency Mar. Joseph Pamplany
Auxiliary Bishop of Thalassery

Vision

To bloom into a Center of Excellence for Technical Education and a pace-setter in rural India with its quality processes and procedures, interwoven with freedom of flexibility, moulding professionals of superior quality, dedicated to the progress and development of Humanity.

Mission

To prepare the students to see beyond geographical limit and belong to a new age of acquisition and application of technology to meet the challenges of the changing world. Inspired and guided by gospel values, we contribute to the socioeconomic welfare of the country with due concern to the marginalized.





VIMAL JYOTHI INSTITUTIONS

VIMAL JYOTHI ENGINEERING COLLEGE

Vimal Jyothi Engineering College (VJEC) is an educational project of the Archdiocese of Thallassery established in the year 2002 and is managed by MESHAR Diocesan Educational Trust. The college is approved by AICTE and affiliated to APJ Abdul Kalam Technological University (KTU). Vimal Jyothi is a self-financing catholic minority institution aiming at generating a fervor for Engineering and Technology in students. This ISO certified institution is accredited by NAAC, NBA, and other relevant bodies. Here we inspire, nurture and foster them to realize their career potential in the field of Engineering and Technology.

With profound insight into the resource requirements of the higher education system, VJEC has proudly set up world-class infrastructure complemented with intellectual capital in the form of competent faculty. Many of the facilities are way beyond the regulatory requirements aiming for learning beyond the syllabus to address the requirements of the industry. These material facilities along with value addition programs and student support systems are the integral facets of empowerment at Vimal Jyothi.

Digital library, industry supported project labs, language lab, and student chapters of professional bodies such as IEEE, ISOI, IETE, SAE, CSI, ACM offer an extensive range of resources, opportunities and services to the outcome-based teaching learning process. Effective implementation of quality control processes ensures Engineering graduates with the expected level of knowledge, skill and attitude. A short description about the courses, departments and admission process are given in respective pages of this prospectus.

VIMAL JYOTHI INSTITUTE OF MANAGEMENT & RESEARCH

The Vimal Jyothi Institute of Management and Research (VJIM) offers two-year full-time residential MBA courses in Business Management. The institute is approved by AICTE and is affiliated to Kannur University, Kerala. VJIM is abuzz with opportunities to be inspired. At every stage of the learning process, interface with the industry, interaction with practicing professionals and internship with corporate is given precedence. Students are required to attend periodic seminars, symposia, workshops, trade fairs, conferences, forums, lectures, summits, speaker series - the list of events on campus is endless, and that can provide a far more comprehensive view of ground realities than any textbook can. A brief note about this institution is given at the end of this prospectus.

SANJOSE ACADEMY

Sanjose Academy is an associated concern of Vimal Jyothi Institutions managed by Sanjose Education and Charitable Trust under the Archdiocese of Thalassery. Sanjose Academy is committed to provide devoted training / coaching for various competitive examinations, basic Civil Service preparations, PSC, UPSC, KSA, Bank exams, ILTES and other examinations to empower the aspirants. This training facility is available in Vimal Jyothi Campus. The details about the training programs are provided at the last part of this prospectus.

VIMAL JYOTHI CIVIL SERVICE ACADEMY

Vimal Jyothi Civil Service Academy was established in association with ALS Satellite Education Pvt. Ltd., New Delhi. ALS is India's largest coaching network for IAS training. It has more than 40 years experience and has taught almost 50000+ students. The mentorship of expert IAS trainers as Jojo Mathew, Manish Gautam, K.M. Pathi, Sachin Arora, Shashank Atom, Sanjay Pandey were the backbone of this IAS academy.

VSAT classes telecasted live from Delhi is available in interactive mode for our students. The class materials and all the academic faculty are the same as that of Delhi Centre. Different training programmes are available as per the choice of the IAS aspirants as full time IAS training batch, Part-time (Saturday, Sunday), Morning, Afternoon, Evening, Weekend and foundation batches. This academy is associated with our Central Library facility and it also aims to train the aspirants for UPSC and other public service exams too.

VIMAL JYOTHI INSPIRE PVT LTD - VJ INSPIRE

Vimal Jyothi Inspire Pvt Ltd (VJ - Inspire) is a registered company under the Vimal Jyothi Welfare Trust to coordinate and support the research and entrepreneurship of the students of Vimal Jyothi Institutions. The VJ Inspire is providing excellent support as incubation center for startups, connects to the government projects, provide hands on training on emerging areas, provides technical testing and feasibility studies, provide platform for collaboration with industry and experts, integrate the Innovation and Entrepreneurship Development Centre (IEDC cells) activities, product development and patenting services, and act as the Virtual Incubation Center. The social interventions of VJ Inspire was appreciated even nationally by the government and media due to the outstanding contribution to fight against the Covid-19 pandemic situations.

Central Library



Facilities

- ❧ Central Library (33000 + Volumes, Online Journals)
- ❧ Journals, Digital Library, Technical & Non Technical
- ❧ E Books & NPTEL Videos, Magazines / Periodicals, Educational database
- ❧ Central Internet Laboratory, High Speed WiFi facility
- ❧ Department Library System
- ❧ Reprographic Centres
- ❧ Conference Rooms & Seminar Halls
- ❧ Well furnished WiFi enabled hostels
- ❧ College buses to major cities
- ❧ Bank Extension Counter & ATM
- ❧ Multipurpose Auditorium
- ❧ Multi Gym & Sports facilities
- ❧ Stationary Store
- ❧ Canteen & Cafe centre

Highlights

- ❧ Consistent academic track record with Univ. Ranks
- ❧ Students chapters of IEEE, CSI, SAE, ISTE, ISOI, IETE, ACM etc
- ❧ Futuristic laboratories with sophisticated instruments & machineries
- ❧ Campus Management System
- ❧ Virtual learning facility
- ❧ Industry interaction & internship
- ❧ Professional placement training programmes
- ❧ Multi language training facility
- ❧ Exclusive Personality Development Programs
- ❧ Amply furnished Smart Class Rooms
- ❧ Online Digital Library
- ❧ Support for Economically Backward Students
- ❧ Multiple Technical Fests & extra curricular activities
- ❧ Full time professional Counsellor & faculty mentor for every 20 Students
- ❧ Outstanding Research Centre & Robotic Club

ADMISSION PROCEDURE

BTech

Vimal Jyothi Engineering College Chemperi - Kannur belongs the Kerala Catholic Engineering College Management's Association (KCECMA) and tuition fees, admission policies etc are same for our 15 Engineering Colleges.

As per the agreement with government 50% of the BTech seats in all the member colleges of KCECMA will be allotted by Commissioner for Entrance Examinations (CEE). Among this allotment 10% seats will be filled from Christian Community.

50% of the seats will be allotted by the management. Among this allotment, 15% seats are reserved for the NRI category and the rest will be allotted on merit ranking as per the reservation published in the prospectus. More details about the management admission procedure, rank list, allotment etc are given in the association prospectus available in website (www.vjec.ac.in).

MTech

Two-year full time MTech course is affiliated under KTU and admission is given as per the directives of the government. 50% seats are allocated as government and the rest for Management allotment in merit basis. DTE Rank or GATE score is critical for government allotment. Management allotment is done on merit basis. GATE stipend is available as per AICTE norms. The details are given in website under MTech admission (www.vjec.ac.in).

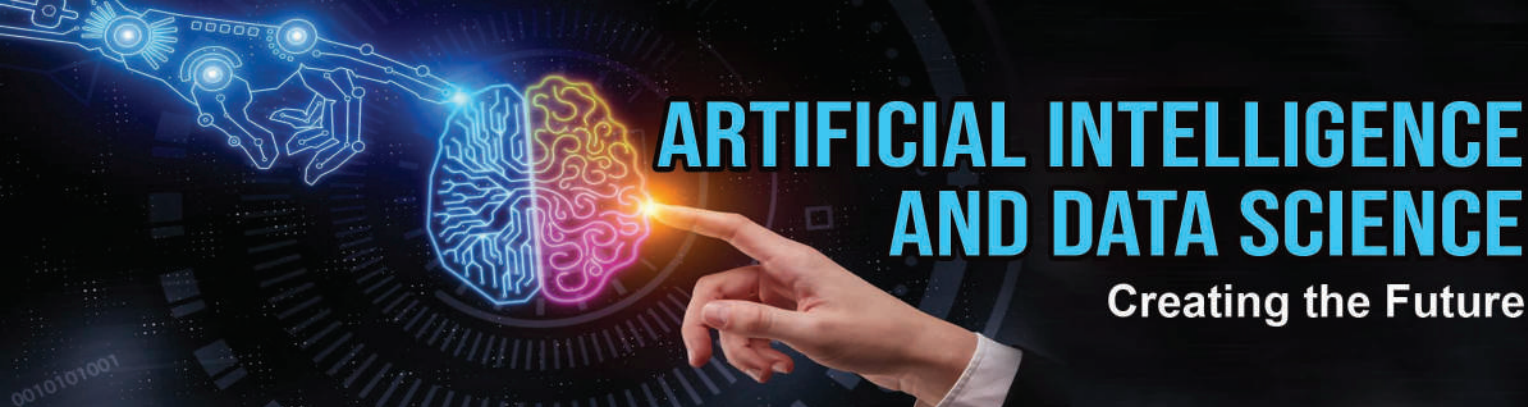
MBA

Two-year full time MBA course is affiliated under Kannur University and admission is given as per the norms of the ASE/govt. 50% marks in degree with any discipline and a valid score in the entrance exam (KMAT, CMAT, CAT) are the criteria for admission. Interview and GD are normally conducted, except in covid-19 situation. The updated admission criteria are given in the admission page of the college website (www.vjim.ac.in).

PhD

The PhD programme is under KTU. A Master's degree in Engineering/Technology or a Master's degree by research in Engineering/Technology with a minimum CGPA of 6.5 are eligible for admission to the PhD program. Admission will be based on KTU Admission Procedure.





ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Creating the Future

Artificial Intelligence and Data Science (AI&DS) is a 4-year B.Tech course offered by KTU under Department of Computer Science and Engineering. AI&DS enable young professionals to create innovative solutions to real-time problems using machine learning algorithms, deep learning, neural networks and data analytics. The students are transformed to professionals by preparing them to critically analyze, design, and implement solutions based on strong theoretical and practical knowledge.

Career Opportunities

- ♦ Opportunities in IT Companies, Government Organizations, Intelligent agencies, Education, Entrepreneurship and Research.
- ♦ Job roles include AI/ML Engineer, Data Scientist, Data Engineer, Data Analyst, Business Intelligence Engineer, Business Analyst, NLP Engineer and Research Scientist.
- ♦ Higher education options such as MS / M.Tech / integrated Ph.D in Artificial Intelligence and Data Science or in related areas after completion of the course.
- ♦ Prospective companies include Google, Qualcomm, Dell, Capgemini, Accenture, VMware, IBM, Rolls Royce, Oracle etc.

Major Topics

- ♦ Deep Learning
- ♦ Machine Learning
- ♦ Natural Language Processing
- ♦ Data Analysis
- ♦ Reinforcement Learning
- ♦ Big Data Analytics
- ♦ Business Intelligence

B.Tech.

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Scope and Relevance

- ♦ Artificial Intelligence and Data Science are highly demanded in the government, business and industrial world
- ♦ AI&DS uses latest analytical concepts like Descriptive, Predictive and Prescriptive Analytics to solve real-time problems.
- ♦ Create ability to design intelligent solutions to a variety of areas and business applications like augment human capabilities, influencing consumer products with significant breakthroughs in healthcare, manufacturing, finance and retail industries.
- ♦ Data Science plays vital role in business organisations to identify business trends and changes through advanced Big Data Analytics.
- ♦ AI&DS support the Business analysis and future prediction using statistical analysis, data aggregation, and data mining.

Salient Features

- ✓ Invited lecture series from well-known Industrialists, Entrepreneurs and Alumni
- ✓ Learn the modern tools like R, Python, Hadoop, Tensorflowetc in the latest technology platforms.
- ✓ Optimum mix of concepts, tools and techniques, advanced analytics, soft skills and business acumen.
- ✓ Boost entrepreneurship, ethical and social responsibility and motivation for research in data science with specific emphasis on artificial intelligence.
- ✓ 100% Placement assistance.



APPLIED ELECTRONICS AND INSTRUMENTATION ENGINEERING

The Department of Electronics & Instrumentation Engineering was established in 2005 and offers B.Tech in Applied Electronics & Instrumentation with an intake of 30 students. It is one of the premier departments in the institute with sophisticated laboratories & qualified faculties. The department releases bi – monthly newsletter to disseminate the marvellous achievements of the students and faculty. Our students have bagged many prizes in paper presentation, design contest & robotics related competitions from IITs & NITs. A minimum of two industrial training & three industrial visits are scheduled for the technical development of students during their course of study. Hands-on training in innovative technologies and instrumentation industry-based certification programs are provided for the skill enhancement of our budding industrial engineers. The 100% placement guaranteed industry training is counted as the most outstanding support for the final year students. We are proud that this industry-oriented course could bring out many outstanding initiatives which are even appreciated in the national level with financial assistance from the government agencies.

B.Tech.

APPLIED ELECTRONICS & INSTRUMENTATION ENGINEERING

Ph.D.

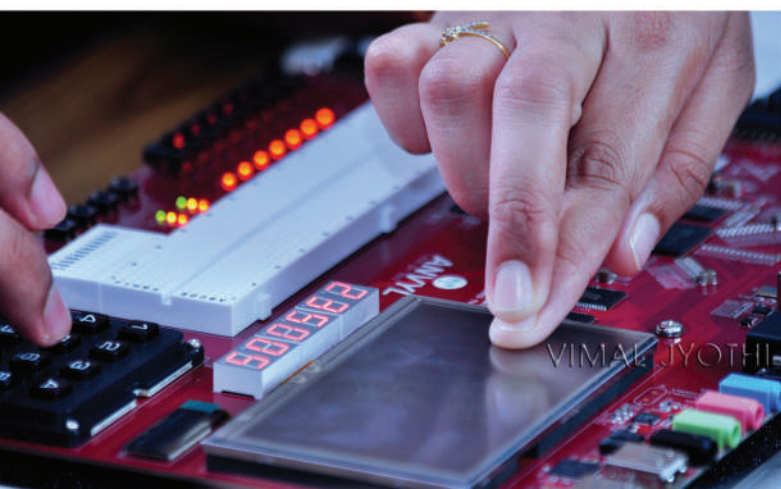


Vision

The department strives to enrich professionals of high competency in the arena of Instrumentation Engineering & mould them to adopt the crux of matter in the field of Automation.

Mission

To prepare the students to envisage beyond the hypothetical thinking & belong to a new era of acquisition & application of Instrumentation Technology to meet the requisition of the changing World.



Our Features

- ✓ 100% Placement assurance
- ✓ Department stands in 5th position all over Kerala
- ✓ NAAC accredited B Tech & M Tech programs.
- ✓ B.Tech Honors for Eligible students
- ✓ B.Tech Minor degree in CSE, EEE, ME and CE for all students
- ✓ Robotics and Automation Clubs, ISA & ISOI Professional Chapters
- ✓ Memorandum of Understanding with industries & Entrepreneurship activities
- ✓ State of the art Lab facilities
- ✓ International Conferences conducted once in two years

Career Prospects

Every graduate of Applied Electronics & Instrumentation is capable of scoring high marks in UPSC & PSC exams and all the students are made industry ready to secure job in the core field of automation & control. This is made possible by giving an in-house industrial training of one month duration to bridge the gap between academics and industry requirement. The graduates have many opportunities in Miniratna & Maharatna Companies like ONGC, SAIL, GAIL, ISRO, DRDO, Bharath Heavy Electricals Ltd, Larsen & Turbo, ABB, Siemens, Yokogawa, Bosch. They have a wide variety of choices of job after graduation in the field of electronics, instrumentation & information technology.

Our recruiters...

- ♦ Vipa Automations ♦ HTA Instruments ♦ MKS Systems ♦ Cubic Computing ♦ Axis Automations
- ♦ FACT Cochin ♦ Depenning & Depenning ♦ Infosys ♦ Western India Plywood Ltd ♦ Cognizant
- ♦ Deacon Automation ♦ Sarvesh Analytical Pvt Ltd ♦ L&T Industries ♦ Radius Engineering
- ♦ Cotmac Automation ♦ ZayanInfotech ♦ ABB Global Industries ♦ Bizame FX Technologies Pvt Ltd
- ♦ Salsar Copper Ltd ♦ Electrolux

International Conference



Major Projects

- Nightingale 1.0 version to 4.0 version for Covid 19 patients
- Mobile Kiosk for Covid 19 patients scanning
- Automatic Sanitizer dispenser
- Supervisory Control & Data Acquisition for Flood monitoring in Kerala
- Puttumatic – Puttu making machine
- Broom Making Machine
- Automatic Coconut drier





CIVIL ENGINEERING

The Department of Civil Engineering has been in existence since 2010. The Department administers a Civil Engineering program that will produce graduates who are ready to work, high in quality, skilled in information technology and are professional in nature. The department also strives to undertake a program in community service and to disseminate advanced technical knowledge to engineers, other professionals and the public. The academic programs offered by the Department are B. Tech. in Civil Engineering, M.Tech in Structural Engineering and Construction Management and Ph.D.

The department of Civil Engineering ensures that the students have the opportunity to work with latest equipment both in the laboratories and while on project with various construction companies during industrial visit and internship. Universal Testing machines, Compressive Testing Machine, Loading Frame, Total station, Triaxial Compression Test Apparatus, B. O. D. Incubators, Spectrophotometer are few instruments that they regularly use during their academics. The faculties in the department are specialized in Structural Engineering, Marine Structures, Geoinformatics, Geotechnical Engineering, Environmental Engineering, Water Resources, Coastal Management, Construction Management, Traffic and Transportation Planning etc.

The faculty is well motivated and takes personal care of the students and counsels them at regular intervals. They also inform the parents/guardians about the progress of their ward regularly. Extra tutorial classes/remedial classes are conducted to take more personal

care of the weaker students. Personality development of students is taken care in addition to English communication classes. The students are encouraged to participate in research projects. The department has been imparting quality education to meet the technological advancement and industrial requirements. The department has well-equipped labs in all disciplines which gratify to the need of the undergraduate and postgraduate students. Besides imparting classroom training, the department has the policy of organizing technical visits and expert talk to give exposure to the practical field.

B.Tech.
CIVIL ENGINEERING

M.Tech.
**STRUCTURAL ENGINEERING &
CONSTRUCTION MANAGEMENT**

Ph.D.

Vision

To develop into a center of excellence for quality education moulding competent civil engineering professionals dedicated to the progress and development of humanity.

Mission

- To provide quality education and training to create competent civil engineers
- To interact with industries to provide a knowledge base for existing and emerging technologies in the field of civil engineering.
- To inculcate moral and ethical values among the students to mould them as civil engineers with social obligations.

Our Features

- ✓ NBA Accredited, portraying National and International recognition for the quality of education
- ✓ State-of-the-art Laboratories and equipment's including Loading Frame and Pollution Control Board approved Environmental Lab
- ✓ Impressive number of campus placements
- ✓ MoU with various industries for Internship support and placement
- ✓ Effectual Gate coaching (in evenings and on holidays)
- ✓ Thriving and impactful Mentoring programme as a support forum for personal development



The major Laboratories are

- Survey Lab
- Strength of Materials Lab
- Concrete Lab
- Geotechnical Engineering Lab
- CAD Lab
- Environmental Engineering Lab:
- Geology Lab
- Transportation Engineering Lab
- Engineering Chemistry Lab

Laboratories

The department of civil engineering has well equipped laboratories with all modern equipment to cater for the needs of UG and PG students as well as R & D and consultancy works. Testing facilities related to Civil Engineering are provided in the laboratories to fulfill the needs of industries.

Survey Lab - Total Station



COMPUTER SCIENCE AND ENGINEERING

Department of Computer Science & Engineering was established in the year 2002 and is accredited by NBA (National Board of Accreditation) up to 30.06.2023. The Department offers M.Tech & B.Tech degree in Computer Science & Engineering and B.Tech degree in Artificial Intelligence and Data Science. The Department of CSE is deeply committed to providing high-quality undergraduate and postgraduate education. The course has a comprehensive curriculum aimed to provide knowledge, in both theoretical and practical aspects of Computer Science, with an emphasis on practical learning. Core subjects include Programming Languages, Computer Architecture, System Softwares, Computer Networking and Security, Artificial Intelligence, and Data Science. Through proper guidance, students are molded to become Industry ready and have the best placement opportunities and a bright future to pursue higher education.

Professional body chapters

- Association for Computing Machinery (ACM)
- Computer Society of India (CSI)
- IEEE Computer Society (IEEE CS)



B.Tech.

- COMPUTER SCIENCE & ENGINEERING
- ARTIFICIAL INTELLIGENCE & DATA SCIENCE

M.Tech.

COMPUTER SCIENCE & ENGINEERING

Ph.D

Vision

To contribute to the society through excellence in scientific and knowledge-based education utilizing the potential of computer science and engineering with a deep passion for wisdom, culture and values.

Mission

- To promote all-round growth of an individual by creating futuristic environment that fosters critical thinking, dynamism and innovation to transform them into globally competitive professionals.
- To undertake collaborative projects which offer opportunities for long-term interaction with academia and industry.
- To develop human potential to its fullest extent so that intellectually capable and optimistic leaders can emerge in a range of professions.

MoUs

MoUs are signed with multiple firms for the betterment of the student exposure to the outside world.

- Infosys Campus Connect
- RedHat Academy
- Oracle Academy

Features

- ✓ B.Tech in CSE is NBA accredited
- ✓ B.Tech Minor and Honors for academically excellent students.
- ✓ Student internships and industrial visits to gain work experience.
- ✓ Exposure to industry and latest technologies through STTPs, workshops, seminars etc. to augment curricular inputs.
- ✓ Guest lectures from well-known Industrialists, Entrepreneurs and Alumni.
- ✓ Software Development Cell, Programming Club and IEDC.
- ✓ GATE coaching at the department level.
- ✓ Well-stocked department library with plenty of foreign author textbooks and reference books alongwith book bank facilities.
- ✓ Exposure to Techfest, co-curricular and extra-curricular activities.
- ✓ Academic counselling system for moral support and guidance.
- ✓ Highly qualified, experienced, dedicated and hard working faculty.

Laboratories

- State-of-the-art computing facilities to the students supported by high-speed LAN and Wi-Fi
- Central Computing Laboratory
- PG Laboratory
- Software Laboratory
- Hardware Laboratory
- IoT Laboratory
- iOS Laboratory
- Virtual Programming Laboratory

Major Projects

- Flood monitoring system using Android application
- Blockchain based government fund tracking system
- Inter-Bank Payment System using Blockchain
- An IoT Based Taxi Service Automation System
- Smart Stick For Blinds Using Machine Learning
- Road pothole detection system using image processing
- Kidney Transplantation System For Matching and Donor Recipient Validation Using IoT and blockchain

iOS Laboratory



ELECTRONICS AND COMMUNICATION ENGINEERING

Department of Electronics and Communication Engineering was established in 2002 with an intake of 60 students in B.Tech programme. The department currently offers B.Tech Programme in Electronics and Communication Engineering with an intake of 90 students. The department is an approved research centre under KTU. Department of ECE provides quality education for the students in the field of Electronics and Communication Engineering. The department is committed to educate students about professional and ethical responsibilities and train them to build life skills for their career development. With excellent infrastructure, laboratories and full-fledged faculty, the department has always been in the path of rapid progress, making it one of the premier departments of Vimal Jyothi Engineering College.

B.Tech.

**ELECTRONICS AND
COMMUNICATION ENGINEERING**

Ph.D.

Vision

To be a pacesetter in the field of Electronics and Communication Engineering.

Mission

- To provide quality education for the students in the field of Electronics and Communication Engineering.
- To educate students about professional and ethical responsibilities and train them to build life skills for their career development.

Interactive classroom



Features

- ✓ B.Tech Honors and Minor for academically excelling students
- ✓ Excellent infrastructure with fully equipped laboratories
- ✓ Eminent and committed team of faculty members and technical staffs
- ✓ State of the art video conferencing facility funded by KSITIL, Government of Kerala worth 35 Lakhs
- ✓ The department offers continuous learning through various FDPs, STTPs and workshops
- ✓ Tech fest - an initiative by student community for knowledge transfer
- ✓ Guest lectures by alumni and other eminent persons for career guidance
- ✓ Value added future proof courses through ASAP, KELTRON and AICTE - PMKVY
- ✓ Recognized research centre of APJ Kalam Technological University to promote research culture

Digital Electronics Lab



Career prospects

A graduate in ECE can apply for the post of an engineer with the state government, the central government and the public sector. Private sector opportunities exist in plethora in the Semiconductor industry, Software industry and Computer related fields and in the Telecom Sector including mobile computing, hardware and networking. Central services like Indian Engineering Service (IES), Indian Telephone Industries, BSNL / MTNL, AIR, Civil Aviation Department, Indian Oil Corporation Ltd., HAL, Refineries, Oil and Natural Gas Corporation Limited (ONGC), Bharat Electronics Limited, Indian Railways, ISRO, DRDO and the Defense services offer exciting careers.

Professional body chapters

➤ IETE ➤ IEEE-IES ➤ IEEE ComSoc

ELECTRICAL & ELECTRONICS ENGINEERING

Department of Electrical and Electronics Engineering were established in the year 2002 and has been imparting quality education. The Department is accredited by NBA (National Board of Accreditation). The department offers four year under graduate program in Electrical and Electronics Engineering to cater the ever challenging needs of technical excellence in all areas of Electrical and Electronics Engineering. It has been playing a vital role in producing technologists of higher caliber. Highly dedicated, hardworking, young, dynamic and well qualified faculty members are the main assets of the department. Through selection of technical electives, students will specialize in certain fields of Electrical and Electronics Engineering. These specializations include Advanced Electrical Systems Design, Electrical Power System Design, Electrical Machine Design, Biomedical Instrumentation, Advanced Power Electronics, Advanced Control System, Artificial Intelligence, Power Controllers, HVDC, Hybrid electric vehicles, Robotics etc. More emphasis is given for laboratory experiments and design projects, so the infrastructure and lab facilities are upgraded from time to time and provide adequate opportunities for the students and researchers to learn and to innovate. In order to have nourishment in the knowledge and background in the areas of Electrical and Electronics Engineering, the department regularly organize community development programs, STTPs, FDPs, National and International seminars, workshops, conferences and symposiums in various specialized fields.

B.Tech.
**ELECTRICAL & ELECTRONICS
ENGINEERING**

Ph.D.



Mr. Abhay Rajan (S8EEE) receiving Award during IEEE IAS Annual meeting at Maryland, USA

Vision

To evolve as a centre of excellence, to train students in contemporary technologies, to meet the needs of global industry and to develop them into skillful engineers instilled with human values and professional ethics.

Mission

To produce competent and disciplined Electrical & Electronics Engineers through delivery of quality education to meet the ongoing global challenges in alignment with technical education system and society.



Our Features

- ✓ NBA Accredited B.Tech Program for Securing Jobs in India & Aboard
- ✓ B.Tech Honors for Academically Excellent Students
- ✓ Options for Minor in CSE, EC, ME, CE, AEI
- ✓ Industry Oriented and Well Equipped Laboratories
- ✓ Department library with good number collection
- ✓ Industrial Visits and MoU With Industries for Placement and Internship Support
- ✓ International Conferences, Seminars, Workshops and Talks for knowledge Transfer
- ✓ Student Support and Mentoring Program
- ✓ Entrepreneurship Development Opportunities
- ✓ Research / Project lab for Project Assistance

Laboratories

The Dept. of Electrical and Electronics has well equipped laboratories in the specialized areas. The laboratories are enriched with all state-of-the-art equipment's and software to cater for the needs of UG as well as R&D works.

The major Laboratories are

- | | |
|--------------------------------|----------------------------|
| 1. Electrical Machines Lab | 5. Power System Lab |
| 2. Electrical Measurements Lab | 6. Software Lab |
| 3. Electrical Workshop | 7. Systems and Control Lab |
| 4. Power Electronics Lab | 8. Research/Project Lab |

Professional body chapters

- Active Professional Societies-IEEE, IEEE IAS, IEEE PES, IEEE PELS & IEEE WIE
- Many students actively participated in the COVID-19 resistance projects works
- Pedal Operated Sanitizer developed by Mr. Muhammed Hashik, S8 EEE received a support of \$3188 from IEEE HAC & SIGHT for its further production and distribution
- 20+ International Awards from Various Professional Societies
- Every year Students Attending Professional Society AGM at USA, Brazil, Nepal etc. with Travel Grant

MECHANICAL ENGINEERING

The Department of Mechanical Engineering was established in 2004. B.Tech Programme is accredited by NBA (National Board of Accreditation). It is one of the premier departments in the institute that provides a unique educational and research environment to over 60 B.Tech graduates every year. The department has well-established laboratories, including Computer Modelling and Simulation, CNC Production centre, Rapid Prototyping Laboratories. Each lab is equipped with facilities which cater to both teaching and research needs. Courses are designed to apply to engineering/ technological problems, creativity and innovation, developing entrepreneurial skills. Students are encouraged to take up real-world problems as their course projects and apply their key learning in identifying better solutions. Students get industrial exposure by doing an industrial internship at the end of even semesters. Industrial visits and guest lectures are arranged to enhance their knowledge. Additional Skill Development Programmes ensures graduates are Industry ready and has the best placement opportunities.

B.Tech.

MECHANICAL ENGINEERING

Ph.D.



Vision

To become a centre of excellence in Mechanical Engineering, producing innovative and creative mechanical engineers to meet the global challenges.

Mission

- To provide a platform to the students towards attaining quality education in Mechanical Engineering.
- To educate students about professional & ethical responsibilities and train them to build leadership and entrepreneurship qualities for their career development.
- To create opportunities and guide students in acquiring career oriented jobs in the field of Mechanical Engineering.



Salient Features

- ✓ NBA accredited B.Tech program.
- ✓ Inclusive pedagogy.
- ✓ State of the art Lab facilities.
- ✓ CNC production Centre with latest design & drafting software packages.
- ✓ Robotics & Industrial Automation Centre.
- ✓ Advanced Computational Software Packages.
- ✓ Active professional Chapters of SAE and IIE.
- ✓ National and International level Technical Event Participation.
- ✓ Innovation and Entrepreneurship Development activities.
- ✓ MOUs with industries and institutions.
- ✓ Additional Skill Development Programs
- ✓ STTPs, Guest Lectures, Workshops, Seminars etc.

Major Projects

- Design and fabrication of Go Kart and e-kart Vehicles.
- Design and fabrication of All-Terrain Vehicle.
- Design & fabrication of Efficycle.
- Design & fabrication of Solar Vehicle.
- Design & fabrication of Formula Vehicle.
- Multifunctional Poultry Robot.
- Optimized queuing model to avoid rush in Hospitals.
- Automatic cradle system for child monitoring using IOT.
- Synthesis of silver nano particles using leaf extract.
- Synthesis of Biodiesel from Used Coffee Grounds and Algae.
- Plastic Crushing And Molding Machine.
- Portable paper pen production machine.
- Bio fertilizer from chicken feather waste.
- Off-Sunshine and Night Cooking Solar Cooker.
- Broom Making machine.
- Commercial Smokeless Oven.





Approved by AICTE | Affiliated to APJ Abdul Kalam Technological University | An ISO 9001:2015 Certified Institution



VIMAL JYOTHI ENGINEERING COLLEGE

CHEMPERI, KANNUR DT., KERALA

SCHOLARSHIPS 2021*	
KEAM Rank 1-7000	Government Fee
Rank 7001-10000	Rs 1,20,000/- (30,000 x 4 year)
Rank 10001-20000	Rs 20,000/- (5,000 x 4 year)

*as per KTU norms * for conditions & updations, please refer website

Patron's Scholarship ♦ Rs.20,000/Course

Nightingale-19
Robot for
serving COVID-19
Patients
developed by
our research
team



2 Year MBA Programme @
Vimal Jyothi Institute of Management & Research
Dual Specialisation in
Marketing, Finance & HRM
Intake : 60 Seats
E-mail: office@vjim.ac.in Web: www.vjim.ac.in



Where perfection is the tradition

ANNEXURE – 1J										
VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI, KANNUR - 670632										
Postal Address		Vimal Jyothi Engineering College, Jyothi Nagar, Chemperi P.O., Kannur dt., Kerala – 670632								
Name of the Management		Meshar Diocesan Educational Trust, PB No. 70, Archbishop's House, Thalassery								
Name of the Patron		Mar George Njaralakatt (Archbishop), Mar Joseph Pamplany (Aux. Bishop)								
Name of the Manager		Fr James Chellamkott #201								
Name of the Principal		Dr. Benny Joseph +91-460-2213512 #114								
Year of Establishment		2002								
Contact Phone Nos.		+91-460-2212240, 2213399, 2213900, 9846423448								
Fax& E-mail		+91-460-2213513, admission@vjec.ac.in								
Website		www.vjec.ac.in								
Total No. of seats		600								
Distribution branch-wise	Branch	AEI	AI & DS	CE	CSE	CSD*	EEE	ECE	ME	
	Seats	30	30+30*	120	180	60	60	90	60	
Fee structure proposed**		Annual Tuition Fee : Rs.75,000/-; Caution deposit : Rs.10000/-; Value Addition Fee: Rs. 10,000/-; 1 Lakh RCD can be claimed as Scholarship, University fee, Uniform, etc. at actuals								
No. of seats proposed to be reserved under various branches		Govt Allotment 30 Seats	30 Seats: Management Allotment	Open Merit	Christian Merit	Malabar Region*	Dalit Christian	Latin Christi an	Arts & Spo rts	NRI
				7	5	6	1	1	1	9
University affiliated to		APJ Abdul Kalam Technological University								
Hostel facilities		5 Hostels : Boys – 850 Girls – 850								
Transportation facilities		College buses to Kannur, Taliparamba, Peravoor, Mamaram, Chalode, Cherupuzha, Mayyil. Campus situated beside the Hill Highway.								
Nearest Railway Station: 45 km (Kannur)		Nearest Airport: 36 km (Kannur)				Nearest Bus Station: 2 km (Chemperi)				
Mode of Application		Online Application								

* Reserved for catholics of malabar region (Districts of Malapuram, Kozhikode, Wayanad, Kannur & Kasaragod)



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B.Tech / B.Tech Honours

Applied Electronics & Instrumentation (AEI)	- 30
Artificial Intelligence & Data Science (AI&DS)	- 30+30*
Civil Engineering (CE)	- 90
Computer Science and Engineering (CSE)	- 180
Computer Science and Design (CSD)	- 60*
Electrical & Electronics Engineering (EEE)	- 60
Electronics & Communication Engineering (ECE)	- 90
Mechanical Engineering (ME)	- 60

M.Tech

Computer Science and Engineering (CSE)	- 6
Structural Engg. & Construction Management (CE)	- 6

Ph.D. Fulltime / parttime research as per KTU norms.

*Awaiting approval

കോവിഡ്: റോബട്ടിക് ട്രോളിയെറുകൾ ചെമ്പേരി വിമൽജ്യോതി കോളേജ്

കോവിഡ് രോഗികളുടെയടുത്ത് ഭക്ഷണവുമായും മരുന്നുകളുമായും സൗകര്യപരമായും സൗജന്യമായി വിതരണം ചെയ്യുന്നതിനായി കോളേജ് റോബട്ടിക് ട്രോളിയെറുകൾ ഉപയോഗിക്കുന്നു. ഈ ട്രോളിയെറുകൾ ഓട്ടം ചെയ്യുന്നതിനായി പ്രോഗ്രാമിംഗ് ചെയ്തതാണ്. കോളേജ് വിദ്യാർത്ഥികൾക്ക് ഈ ട്രോളിയെറുകൾ ഉപയോഗിക്കാനുള്ള അവസരം ലഭിക്കും.

കുടി തൊടാതെ കൈ അണുവിമുക്തമാക്കാൻ വിമൽ ജ്യോതിയുടെ റോബോ സാനിറ്റൈസർ

കോവിഡ്-19 മഹാമാരിയുടെ പശ്ചാത്തലത്തിൽ പ്രതി പ്രവർത്തനങ്ങളെ ശക്തമാക്കാൻ ഉതകുന്ന തീനിയിൽ ഇടപെടാൻ എല്ലാ മേഖലകളിൽ ഉതകുന്ന തീനിയിൽ ആവശ്യപ്പെട്ടിരുന്നു. അതിനുള്ളിൽ സാങ്കേതിക വികസനത്തിലൂടെ റോബോ സാനിറ്റൈസർ വികസിപ്പിക്കാൻ ചെമ്പേരി വിമൽജ്യോതി കോളേജ് വിദ്യാർത്ഥികൾക്ക് കൈയെഴുത്തു പരിപാടിയിൽ പങ്കെടുക്കാനുള്ള അവസരം ലഭിക്കും. ഈ പരിപാടിയിൽ പങ്കെടുക്കുന്ന വിദ്യാർത്ഥികൾക്ക് കൈയെഴുത്തു പരിപാടിയിൽ പങ്കെടുക്കാനുള്ള അവസരം ലഭിക്കും.

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കൈയെഴുത്തു പരിപാടിയിൽ കോവിഡ്-19 നിയന്ത്രണ പദ്ധതിയുടെ ഭാഗമായി കോളേജ് വിദ്യാർത്ഥികൾക്ക് കൈയെഴുത്തു പരിപാടിയിൽ പങ്കെടുക്കാനുള്ള അവസരം ലഭിക്കും. ഈ പരിപാടിയിൽ പങ്കെടുക്കുന്ന വിദ്യാർത്ഥികൾക്ക് കൈയെഴുത്തു പരിപാടിയിൽ പങ്കെടുക്കാനുള്ള അവസരം ലഭിക്കും.

Chief Minister's Office, Kerala

കോവിഡ്-19 മഹാമാരിയുടെ പശ്ചാത്തലത്തിൽ പ്രതി പ്രവർത്തനങ്ങളെ ശക്തമാക്കാൻ ഉതകുന്ന തീനിയിൽ ഇടപെടാൻ എല്ലാ മേഖലകളിൽ ഉതകുന്ന തീനിയിൽ ആവശ്യപ്പെട്ടിരുന്നു. അതിനുള്ളിൽ സാങ്കേതിക വികസനത്തിലൂടെ റോബോ സാനിറ്റൈസർ വികസിപ്പിക്കാൻ ചെമ്പേരി വിമൽജ്യോതി കോളേജ് വിദ്യാർത്ഥികൾക്ക് കൈയെഴുത്തു പരിപാടിയിൽ പങ്കെടുക്കാനുള്ള അവസരം ലഭിക്കും. ഈ പരിപാടിയിൽ പങ്കെടുക്കുന്ന വിദ്യാർത്ഥികൾക്ക് കൈയെഴുത്തു പരിപാടിയിൽ പങ്കെടുക്കാനുള്ള അവസരം ലഭിക്കും.

Mathrubhumi മാതൃഭൂമി

കോവിഡ്: മിനി വെൻറിലേറ്റർ മാതൃഭൂമിയുമായി വിമൽജ്യോതിയിലെ വിദ്യാർത്ഥികൾ

കോവിഡ് രോഗികളുടെയടുത്ത് ഭക്ഷണവുമായും മരുന്നുകളുമായും സൗകര്യപരമായും സൗജന്യമായി വിതരണം ചെയ്യുന്നതിനായി കോളേജ് റോബട്ടിക് ട്രോളിയെറുകൾ ഉപയോഗിക്കുന്നു. ഈ ട്രോളിയെറുകൾ ഓട്ടം ചെയ്യുന്നതിനായി പ്രോഗ്രാമിംഗ് ചെയ്തതാണ്. കോളേജ് വിദ്യാർത്ഥികൾക്ക് ഈ ട്രോളിയെറുകൾ ഉപയോഗിക്കാനുള്ള അവസരം ലഭിക്കും.

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Nightingale -19

The first of its kind product from VJEC for battling war against COVID. This robot is designed to carry food, water and medicine for patients in the COVID ward. Also it is having a video calling facility to interact with patients in the COVID ward. Smt. K KShylaja Teacher, health minister inaugurated this robot first in the Anjarakandy COVID hospital through video conferencing and she had interactions with a COVID family.

Students: Noyal Jose, Amal Babu,
Daniel Paul Lalat

Faculty : Mr. Sunil Paul, Dr. T D John,
Dr. V Sampath Kumar, Mr. Sarin C R

Pedal Operated Sanitizer Dispenser

This simple device has a major role to play in preventing spread of COVID-19. It can be operated by leg to dispense the sanitizer in hands. It is purely mechanical operated and hence the running cost is practically zero.

Students: Noyal Jose, Amal Babu,
Daniel Paul Lalat

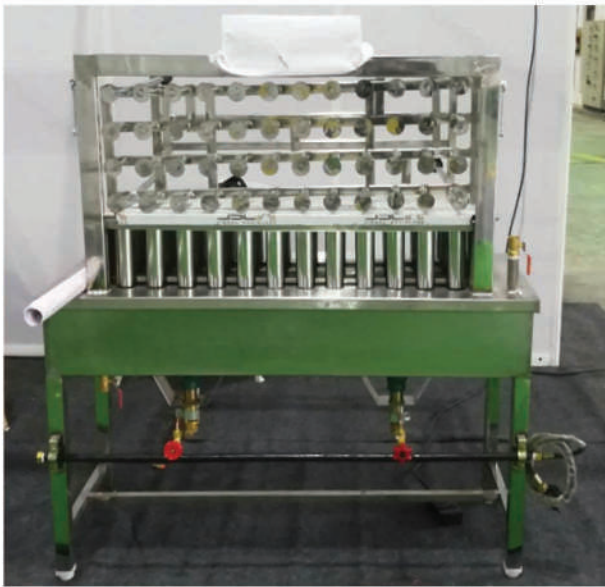
Faculty : Mr. Sunil Paul, Dr. T D John,
Dr. V Sampath Kumar, Mr. Sarin C R



Automated coconut Broom making machine

Another invention that can support mainly the rural folk, especially for women empowerment. Using this simple machine, brooms can be made automatically by feeding coconut leaves in the machine. More employment opportunities in rural area can be generated.

Students: Md. Farseen, Avinash Pramod
Faculty : Dr. V Sampath Kumar



Automatic Puttu Making Machine

'SAM solutions Start up Team' of Vimal Jyothi getting Rs.4 LAKH From Central Govt. (MHRD)

GUIDE



Dr. V. Sampath Kumar
(Prof. EIE Dept.)



Alan Tom Shaji



Aswin Sudhan



Athul Prasanth



Febin J Nalappat

{S8 Applied Electronics & Instrumentation Students}

Integrated water tube Boiler with atomizing Nozzle in fire tube boiler (hybrid boilers)

Another technological breakthrough in boilers by implementing a new design. This product is developed through the funding of TDAP, a KSCSTE project. It is an Integrated Water Tube Boiler with Atomizing Nozzle in Fire Tube Boilers (IWF Boilers). It is made with a significant change in the layout design that can simplify the design and also improve the boiler's efficiency to around 90-93%.

Faculty : Dr. V Sampath Kumar



Solar Tunnel Greenhouse Dryer Coupled with Biomass Backup Heater

This setup is a boon for the farmers for drying their agriculture products mainly by using solar energy. Here a solar tunnel greenhouse dryer coupled with biomass backup heater is used for the purpose. Drying of a variety of agricultural products like Copra, Rubber, Pepper etc is possible in this set up.

Students: Lavanya N, Kavya P V, Aswathi, Aswara

Faculty : Dr. V Sampath Kumar

International visit - 2019



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Batch	Result in %	Placement in %
2012-14	100%	80%
2013-15	96%	88%
2014-16	100%	92%
2015-17	100%	95%
2016-18	100%	93%
2017-19	97%	90%

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	Rs. 5000 per Semester	10	70% and above marks in UG, 65% & above marks in MBA exams
Silver	Rs. 5000 (one time)	10	KMAT- '21 toppers who join in VJIM

* for T&C, refer website



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- APPLIED ELECTRONICS & INSTRUMENTATION (AEI)
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- CIVIL ENGINEERING (CE)
- COMPUTER SCIENCE AND ENGINEERING (CSE)
- COMPUTER SCIENCE AND DESIGN (CSD)*
- ELECTRICAL & ELECTRONICS ENGINEERING (EEE)
- ELECTRONICS & COMMUNICATION ENGINEERING (ECE)
- MECHANICAL ENGINEERING (ME)

M.Tech - Ph.D

- COMPUTER SCIENCE & ENGINEERING (CSE)
- STRUCTURAL ENGINEERING & CONSTRUCTION MANAGEMENT (CE)

* Awaiting approval

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