Vinayaka Mission’s Kirupananda Variyar Engineering College (VMKV Engineering College) is an initiated educational background, aimed to provide quality education to aspiring technocrats in various fields of Engineering & Technology.

Started way back in 1987 with 3 branches approved by AICTE, New Delhi.

Initially affiliated to the University of Madras, Periyar University and later on to Anna University.

Elevated to Deemed University status in 2001 and it has become a Constituent college of Vinayaka Mission's Research Foundation - Deemed to be University in 2004.

At present, the institution offers 9 UG Programmes and 4 PG programs along with MBA under various specializations offering higher education to over 1200 students, pursuing higher education in Engineering, Technology & Management.

Experienced and Dedicated faculty.
NPTEL (National Programme on Technology Enhanced Learning)

- NPTEL, E-Learning courses from IIT and IISC, provides learning through online web.
- EDU-Center Scenario and Local Guru at VMKV Engineering College consists of a high-class work station 1.3 TB, 4 TB storage server to access the video lectures.
- Total Number of faculty and students registered for the NPTEL courses: 521
- Total Number of faculty and students registered for the NPTEL examination: 85

Wi-Fi

- The entire campus is Wi-Fi enabled with high speed (1 Gbps) internet connection to allow the students to access the internet. The coverage is not just limited to the classrooms; instead, it extends to all the facilities within the campus and hostel premises. Totally 37 access points available in the entire campus.

- SWAYAM / MOOC is a programme initiated by Government of India.
- Students are encouraged to register online courses which are provided with certificate after evaluation of the performance.
- Additional credit will be added, for each course completion.
- SWAYAM PRABHA DTH is installed in our institution for the benefit of students and faculty. It is a group of 32 DTH channels, telecasting of high quality education programmes on 24X7 basis using the GSAT-15 satellites.

VIRTUAL LAB

Virtual lab is a project initiated by Ministry of Human Resource Development. The project is aimed to provide remote-access to Labs in various disciplines of Science and Engineering. This would help the students in learning basic and advanced concepts through remote experimentation. Our Institution is recognized as Creamy Layer Nodal Centre for implementing the programme by the Ministry of Human Resource Development (MHRD), Govt. of India, New Delhi.

ONLINE COURSES

ONLINE CLASS ROOM

Google Class room is an open resource, E-Platform, create an online virtual classroom for teachers and students for academic interaction including utilization of e-resource placed by the teacher. Teachers can solve student's problem beyond the boundaries of physical classroom irrespective of place and time.

VSMART CLASS ROOM

Smart Classrooms are technology enhanced classrooms that foster opportunities for teaching and learning by integrating learning technology, such as computers, specialized software, audience response technology, assistive listening devices, networking, and audio/visual capabilities.

PROGRAMMES OFFERED

**B.E. / B.Tech. (Regular-Full Time)**
- Artificial Intelligence & Data Science
- Biomedical Engineering
- Biotechnology
- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Mechanical Engineering
- Pharmaceutical Engineering

**B.E. / B.Tech. (Regular-Full Time) (Direct II year)**
- Biomedical Engineering
- Biotechnology
- Civil Engineering
- Computer Science and Engineering
- Electrical and Electronics Engineering
- Electronics and Communication Engineering
- Mechanical Engineering
- Pharmaceutical Engineering

**B.E. (Regular - Part Time)**
- Civil Engineering
- Computer Science and Engineering
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Mechanical Engineering

**M.E. (Regular - Full Time)**
- Computer Science & Engineering
- Manufacturing Engineering
- Power System Engineering
- VLSI Design


**Eligibility**: Passed Bachelor Degree of minimum 3 years duration. Obtained at least 50% marks (45% in case of candidates belonging to reserved category) in the qualifying Examination.

**Eligibility : M.E. (Regular - Full Time)**: Passed Bachelor Degree or equivalent in the relevant field. Obtained at least 50% marks (45% in case of candidates belonging to reserved category) in the qualifying Examination.

**Eligibility : M.E. (Regular - Part Time)**: Passed Degree in relevant discipline/field/ Programme. Minimum of Two years Full Time work experience in a registered Firm/ Company/ Industry/ Educational and/ Government, Autonomous Organizations in the relevant field in which admission is sought.

**Eligibility**: Diploma in the relevant Discipline/ Field/ Programme. Minimum of Two years Full Time work experience in a registered Firm/ Company/ Industry/ Educational and/ Government, Autonomous Organizations in the relevant field in which admission is sought.
11. Extraction of high value biomolecules from food wastes
10. Air conditioning and Refrigeration using exhaust heat from car
8. Intelligent Helmet
7. Application of Enzyme extracted from Aloe Vera plant in textile, leather and paper industries.
6. Design of textile effluent treatment plant and implementation of aquaponics.
5. Design and fabrication of leg holder for supporting rural woman in labor process.
4. Cryogenic grinding Machine with unaltered qualities of spices
3. High Frequency Induction Heater – Donated to Defence Food Research Laboratory (DFRL), Mysore.
2. Edible Water Bubble
1. Mileage Promoter Gear – commercialized in two-wheeler workshops.

Vinayaka Mission's Kirupananda Varijyar Engineering College is the first college in Salem Zone recognized by Ministry of MSME, Government of India, New Delhi as Business Incubator in the year 2015-16 under the scheme “Support for Entrepreneurial and Managerial Development of SMEs through Incubator”.

9 proposals presented by us have been approved and sanctioned by the Ministry for financial grant to the tune of 53.5 Lakhs in 2016-17 & 2017-18.

Further the Incubation Centre is also collaborating with MSME – Centre of Excellence, Indian Institute of Science, Bangalore and submitted 11 proposals for financial support. Out of which 4 projects have been financially sanctioned to the tune of 4.41 lakhs.

In addition to the above, our incubator is also recognized by the Ministry of Commerce and Industries, Govt. New Delhi as an authorized Incubator to visit the new ventures promoted by entrepreneurs for issuing recommendation letter to secure the status of “Startups” for availing financial and other benefits under the scheme of our Honorable Prime Minister “Startup India”.

4 Start-ups have been developed in the Campus
1. Knovonat Industries, Salem – 2016-17
2. Blackswaan Infotech Pvt. Ltd., Chennai – 2016-17
3. Rajaganapathy Agro Based Polymers, Puducherry – 2018-19
4. Palani Vel Pyros, Salem – 2019-20

Our Institution has been shortlisted for the empanelment under the Pradhan Mantri YUVA Yojana (formerly known as UDYAMITA).

Under this Scheme, Two faculties have been trained by the Ministry of Skill Development and Entrepreneurship, Government of India. We have trained 114 students for the Entrepreneurship Development Course and they have been certified by the Ministry of Skill Development and Entrepreneurship, Government of India.

11 Products incubated by students in Prof. Dr. A. P. J. Abdul Kalam Business Incubator since 2016 and Ready for commercialization since June 2019
1. Mileage Promoter Gear – commercialized in two-wheeler workshops.
2. Edible Water Bubble
3. High-Frequency Induction Heater – Donated to Defence Food Research Laboratory (DFRL), Mysore.
4. Cryogenic grinding Machine with unaltered qualities of spices
5. Design and fabrication of leg holder for supporting rural woman in labor process.
6. Design of textile fluent treatment plant and implementation of aquaponics.
7. Application of Enzyme extracted from Aloe Vera plant in textile, leather and paper industries.
8. Intelligent Helmet
10. Air conditioning and Refrigeration using exhaust heat from car
11. Extraction of high value biomolecules from food wastes

Our Incubator has been re-recognized by Ministry of Micro, Small and Medium Enterprises, Government of India again in the year 2019.

23 Innovative ideas have been submitted by students to My MSME in the year 2019-20.
5 Innovative ideas have been submitted to students by My MSME in the year 2019-20.

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The institute has signed MoUs with various industries for their support in skill development programmes and providing solutions to the complex problems faced in the industries. Simultaneously, the students and faculty can update their knowledge by having inplant training, internship and interaction with industrial experts.

<table>
<thead>
<tr>
<th>Industry</th>
<th>Beneficiary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sona Yuk &amp; Private Limited, Bangalore</td>
<td>All Departments</td>
</tr>
<tr>
<td>Green International Project Management Pvt. Ltd., Delhi</td>
<td>Management Studies and All Engineering Department</td>
</tr>
<tr>
<td>Aquion – Aqua Purification System, Salem</td>
<td>Bio-Technology &amp; Management Studies</td>
</tr>
<tr>
<td>Salem Productivity Council – SALEM</td>
<td>Management Studies and All Engineering Department</td>
</tr>
<tr>
<td>TANSTIA – FMF Service Centre</td>
<td>All the Departments through various Industries</td>
</tr>
<tr>
<td>Amity Soft Technologies Pvt., Ltd., Ghaziabad</td>
<td>Computer Science Engineering, Electronics &amp; Communication, Electrical and Electronics</td>
</tr>
<tr>
<td>Bhagavathi BioTech Chemical Company, Komaplayam</td>
<td>Bio Technology</td>
</tr>
<tr>
<td>Rajagopalapathy Agro based Polymer, Pondicherry</td>
<td>Bio Technology</td>
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<tr>
<td>Alpha – Omega Hi-Tech Bio Research Centre, Salem</td>
<td>Bio Technology</td>
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<tr>
<td>BOSCH – Ltd., Chennai</td>
<td>Bio Technology</td>
</tr>
<tr>
<td>Frontline Electronics, Salem</td>
<td>Electrical &amp; Communication Engineering</td>
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<tr>
<td>Aruna Builders – Krishnagiri</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Venkataraswamy Engineering Construction – Dharamapuri</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Vinayaka Institute of Medical Sciences, Salem</td>
<td>Bio Medical Engineering</td>
</tr>
<tr>
<td>Infosys</td>
<td>All Department</td>
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<tr>
<td>Ripe Consulting Services Pvt. Ltd., Bangalore</td>
<td>All Department</td>
</tr>
<tr>
<td>Krishna, Salem</td>
<td>Bio-Tech</td>
</tr>
<tr>
<td>Indian Infotech, Namakkal</td>
<td>Electrical &amp; Communication Engineering</td>
</tr>
</tbody>
</table>

Curriculum and Syllabus Design Based on OBE Frame Work

The Institution is following Structured Choice Based Credit System with OBE frame work. Faculty Development Programme on “Curriculum and Syllabus Design Based on OBE Frame Work” Organised by Internal Quality Assurance Cell (IQAC) in Association with National Institute of Technical Teachers’ Training and Research (NITTTR), Chennai.

RECOGNIZED BY MINISTRY OF COMMERCE AND INDUSTRIES, Gov. NEW DELHI FOR PROVIDING RECOMMENDATION LETTER TO START-UPS

Our Institution has been identified by Ministry of Commerce and Industries, Govt. New Delhi as an Incubator for providing recommendation letter to start-ups for availing funding benefits from various Government agencies. This privilege has been accorded by the Ministry to selected incubators throughout the country and we are first among them for getting that coveted status. Out of 207 incubators throughout the country only 47 incubators have been selected by the Ministry for issuing recommendation to funding agencies for start-ups. Our Institution is first in the list out of 47 through which the start-up India campaign is being popularised among the budding entrepreneurs. The recommendation letter has to be issued to beneficiary after due verification and diligence in the capacity of Executive Head of the Business Incubator.

COLLABORATION WITH MSME – CENTRE OF EXCELLENCE, INDIAN INSTITUTE OF SCIENCE, BANGALORE

“Prof. Dr. A.P.J. Abdul Kalam Business Incubator” has also submitted 11 proposals for financial support from MSME – Centre of Excellence, IISc, Bangalore. The Director of the Centre, Mr. S. M. Jamkhandi has very much appreciated the innovative ideas and effort of VMKV Engineering College and immediately selected 2 ideas and sanctioned financial support to the tune of 3 Lakhs each and further 5 of our projects have been approved for financial sanction. Further the remaining 4 proposals would be considered for financial support shortly.

Project proposals approved by IISc-MSME Centre of Excellence for Funding

1. Development of AC and Refrigeration using exhaust heat from 4-stroke Engine
2. Automatic Fuel Limiter
3. Production of soap from food-waste
4. Walking stick with heart monitor (advanced warning for heart attack)
5. Mobile heart monitor (advanced heart attack monitoring)

Collaboration with Defence Food Research Laboratory, Mysore

VMKV Engineering College collaborates with Defence Food Research Laboratory, Mysore for the past 5 years in the area of Food Processing Techniques. In this connection, our Department of Electrical and Electronics Engineering has recently developed a High Frequency Induction Heater for cooking foods using pressure cookers having a high capacity of 60 litres. DFRL has taken this innovation and this new technology will be launched by the DRDO Chairman shortly. In addition, we are currently developing Cryogenic grinding machine for spices, Chapathi Oil spraying and heating system, Solar Induction heater for food processing industries.
VMKV Engineering College, Salem

ENTREPRENEURS - OUR STUDENTS ACHIEVEMENTS

DEVELOPMENT OF BIO-DIESEL FROM ALL KINDS OF SOLID PLASTIC WASTE USING CATALYST

In India more than 1,35,000 MT of solid waste are collected every day in that only 28% of waste is recycled, remaining wastes are dumped and incinerated the sanddills adversely affects the environment as well as eco system. Pyrolysis is a suitable process for recycling polymer composites because the thermal decomposition products of the polymer matrix evaporate, and it is condensed to liquid fuels. In the regular pyrolysis process all kind of plastics and solid wastes cannot be processed but, in this process catalyst is used to convert the solid waste to valuable fuels at very low temperature range of 250-270°C.

Through Pyrolysis process valuable fuel oil are obtained which can be further Distilled to Produce high quality Petroleum Products like, Gasoline, High Speed Diesel, Low Speed Diesel and Gases. In this process we achieved a Product yield of about 74% of Fuel, 13% Carbon ash and Product Gas 10%. The Fuels produced from this process has comparatively very low carbon and Sulphur Content in it. Through scaling up this project we have achieved a Product yield of about 74% of Fuel, 13% Carbon ash and Product Gas 10%. This process is completely based on Green Technology which does not produce any pollution.

The “Development of Bio-Diesel from all kinds of Solid Plastic Waste using Catalyst” has been developed in the incubation center in which the alternate fuel was successfully developed. In continuation the student have started a new “Start Up” in the name of PALANI VEL PYROS, Salem guided by the institution incubation center.

Initial Product Development in our college incubation center

Product Developed in our college incubation center

PLACEMENT & TRAINING

1. Industry Institute Programmes - Corporate leaders from leading industries are invited regularly to interact with students.

2. Various Training Programmes are organized to train the students in the areas of Aptitude & Soft Skills Training, Behaviour Assessment for the students, Career Counselling & Psychometric Assessments, and Verbal through the Reputed External Training centres and in-house trainers. NASSCOM, AMCAT assessments are provided to the students to improve their self esteem.

3. Technical training programmes are being conducted by Technical experts with their specialization that provide Internship and placement as its impact according to the need of the Industry Specific.

Placement Achievement during 2019-20

(Till March 2020): 62%

Placement Achievement during 2018-19

- Placement: 72%
- Entrepreneurship: 13%
- Higher Education: 15%

ACHIEVEMENTS

1. BEST INSTITUTION AWARD FROM ICT ACADEMY

Our Institution has received Best Institution Award from ICT academy (A Consortium of Govt. of Tamil Nadu & Confederation of Indian Industries) for Best Practices in Exploring Entrepreneurship among Young Minds on 28.2.17 in a function at Chennai. A total of 500 institutions participated in various categories.

Prof. P. K. Kumaresan, Professor of CSE & CAO, & Dr. V. Anbazhagan, Professor of Chemistry, VMKV Engineering College, Salem receiving the Best Institution Award under the category "Mentoring & Facilitation towards Research & Development for students to become Entrepreneurs" from Mr. Vishal Dhupar, Managing Director, Asia South, NVIDIA.

2. MSME AWARD

The institution has been selected for establishing “Institution Innovation Cell” by Ministry of Human Resource Development, Government of India, New Delhi.

3. MHRD Innovation Cell (MIC)

The institution has received the 5th SMEs Excellence Award for “Cost Competitiveness” by Ministry of MSME, Government of India, New Delhi.

ALL INDIA YOGA CHAMPIONSHIP

Medal Winners in India Yoga Championship held at Chennai and South Zone Inter open Yoga Championship held at Madurai in the academic year 2019-20.
The college has student centric approach and supports them in their career development and has achieved several milestones. Currently the focus is on Entrepreneurship development (with Incubation center) for the students. Extremely carrying Principal and faculties and enlightening the students minds.

- Mr. D Eregamani
Dy General Manager & Head – Operational Excellence, CARBORUNDUM UNIVERSAL LTD., Hosur

I have seen my institution gone to a greater height in developing entrepreneurs to begin their start ups. My warm greetings & I am Proud to be a VMKVECian.

- Mrs. Srividhya Kamakshi Sundaresan
Program Manager, Engineering Release, Cisco Systems India Pvt. Ltd., Bangalore.

I am happy to note that my institution where I studied is committed to innovation for the local market. Delighted to see staffs encouraging students to develop prototypes on the innovation ideas.

- Mr. Gopalakrishnan Venkatesan
R&D Leader - Middle East,Turkey, Africa & Russia | Honeywell Security & Fire

TESTIMONIALS
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