

EST. 1984



# RAJAS

## Engineering College

NOT JUST A DEGREE BUT A PROMISING FUTURE

PROSPECTUS



AERONAUTICAL ENGINEERING  
MECHANICAL ENGINEERING  
CIVIL ENGINEERING  
ELECTRONICS & COMMUNICATION ENGINEERING  
ELECTRICAL & ELECTRONICS ENGINEERING  
ELECTRONICS & INSTRUMENTATION ENGINEERING  
COMPUTER SCIENCE & ENGINEERING AND  
INFORMATION TECHNOLOGY  
MANAGEMENT STUDIES (MBA)  
COMPUTER APPLICATION (MCA)



**Dr. S.A. RAJA**  
Founder Chairman



EST. 1984  
**RAJAS**  
Engineering College  
NOT JUST A DREAM BUT A PROMISING FUTURE



Dear Citizens  
Vandhe Madharam !

Missions serve humanity and clear vision rule the missions. The immaculate vision of a man foretells his destiny. If we probe it in depth, we will find that we are here on earth to fulfill a mission within the shortest time of our own lives. In this regard, I always appreciate the golden words of the great visionary poet Robert Frost, thus he said: Miles to go before I sleep.

I started counting the milestone from the year 1984. When I realized the necessity for providing appropriate, ample and adequate quality education to the rural younger generation. Selvam Educational and Charitable Trust, Vadakkangulam was established. Under this trust, The Indian Engineering College was started and one by one many other Colleges to serve the rural community further in the direction of great destiny. The trust has plenty of ambitious plans to introduce many more postgraduate courses in Engineering, Architecture, Destiny etc.,

Each and every leaf of this brochure will provide enormous information about, Rajas Engineering College. This is the first Engineering College in south Tamil Nadu, which was established by the founder of Rajas Group of Colleges

*Welcome you all to Rajas Colleges,  
Vadakkangulam.*

Jai Hind.





**Dr. S.A. Joy Raja** MBA., Ph.D., (USA)  
Chairman

## ABOUT US

The Indian Engineering College ranks with a few of the most outstanding colleges in the state. Students who graduate from this college are being well placed in multinational companies, defence services and other prestigious institutions in India and abroad. Approved by Government of Tamilnadu, Vide G.O No. 1777 dated 12.11.1984 and affiliated to Anna University, Chennai and approved by All India Council for Technical Education, New Delhi vide their order No. F/45-41/91-AICTE/664 dated 12/4/1993 with the following branches of study. Our students who have graduated in the past three decades are well settled throughout the world. In fact an active ALUMNUS is functioning at UAE with hundreds of students as its members. TIEC ians, through our disciplined coaching and dedicated teaching of our faculties have moulded themselves to fit in any part of the world and work environment to take up challenging aspects of the job. Our students are successful as Entrepreneurs, Technocrats, Scientists, Educationists, Managers and much more.

## EDUCATION SUPPORT

- Highly Experienced and Trained Faculty Team.
- Class Rooms with audio visual facilities.
- Wi-fi campus with unlimited internet access
- UV treated hot, cold water for drinking
- College bus facilities.
- Boys and Girls hostels with attached bathrooms
- Internet and phone facilities.

## **B.E. / B.TECH**

- Aeronautical Engineering
- Civil Engineering
- Mechanical Engineering
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Electronics and Instrumentation Engineering
- Computer Science and Engineering  
Information Technology

## **M.E.**

- Structural Engineering
- Applied Electronics
- VLSI Design
- Construction Engineering and Management
- Mechatronics
- Power System Engineering
- Computer Science and Engineering
- Communication Systems
- Aeronautical Engineering
- Power Electronics and Drives

## **M.B.A.**

- Master of Business Administration

## **M.C.A.**

- Master of Computer Applications

COURSES OFFERED





## OUR CAMPUS

The College integrates multiple facilities required for a modern engineering institution.

### *The Mission of this great centre of learning is...*

- To set high standards in the diverse fields of professional education.
- To spread the fragrance of learning to the remotest part of the country.
- To evolve new dimensions in research and technology.
- To inculcate moral values, develop leadership, citizenship and dignity.
- To shape discipline, competency and character of technicians.
- To strength, the Nation's human resources.
- To mould a new generation of young scientists and technologists of high order who can meet the challenges in the fast developing technological world.



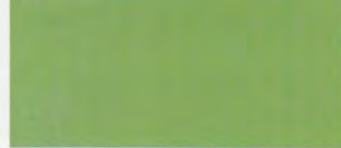


## Lab Equipments

Hi-Tech infrastructural facilities such as sophisticated laboratories with state of the art equipments and high speed broadband internet connection. More than 900 computers to facilitate independent system access to every student.

## Highlights

- 30 years of Academic Excellence.
- Recruitment Campaigns annually.
- Placement training which includes Aptitude test, Group Discussion, Interview skills.
- Personality Development etc.
- The College has a large indoor auditorium, with acoustic sound system that can seat 3000 people.



## DEPARTMENT OF AERONAUTICAL ENGINEERING

The Aeronautical Engineering department is a fast growing department of this institution. The senior professors and staff members are highly qualified with specialization in the area of Aeronautics, Combustion and Propulsion.

### The Aero department has major laboratories such as:

- Air Craft Structure Lab
- Propulsion Lab
- Aero Dynamics Lab
- Aero Engines Repair and Maintenance Lab
- Air Craft System Lab.

### The Aero Department Conducts a PG Programme.

- ME – Aeronautical Engineering

#### Course Duration:

B.E. 4 years / M.E. 2 years

#### Areas of study include:

- Aero dynamics & flight dynamics
- Aircraft engine & structure
- Air craft system and instruments
- Wind tunnel techniques
- Space mechanics, Propulsion
- Air craft general engineering & maintenance

#### Career opportunity

Aero students are highly preferred in HAL, NAL, ISRO, CIVIL aviation, Air force, Aero industry at abroad, Production centers etc.,







## DEPARTMENT OF MECHANICAL ENGINEERING

The Department was established in the year 1984-85 and it has an intake of 120 students to be increased to 180 by 2014-15. The department has twenty six laboratories and workshops with advanced machine shop facilities as stipulated by the AICTE and Anna University. In addition to these, the department has the following specialized lab facilities:

- CAD / CAM Lab with CNC Machines
- Aerodynamic Lab
- Steam Lab
- Instrumentation Lab
- Heat and Mass Transfer Lab
- Fluid Mechanics Lab
- Metrology & Materials Lab
- Automobile Lab
- Research Wing
- Engineering
- Thermodynamics
- Metallurgy,
- Manufacturing Technology
- Machine Design & Dynamics of Machinery
- Heat & Mass Transfer
- Fluid Mechanics & Machinery
- Automobile Engineering
- Mechatronics Lab

Individual project work is given to all students and external project works are taken up from reputed concern. Industrial visits are undertaken every year by students. Regular seminars are conducted on the project works. Post Graduation in Mechatronics is a added feather to the department.

The Mechanical Engineering Department conducts a PG Programme

### **ME- Mechatronics**

**Course duration: B.E.-4 years / M.E – 2 years**

#### **Areas of study include:**

#### **Career opportunity:**

- Bright employment
- Opportunity exists at TIEC
- Mechanical Engineering Students to fit in any Industry or organization
- ISRO, DRDO, HAL, NAL, MNCs, Defence Establishments State and Central Govt. Projects.
- Automobile manufacturers,
- Iron & Steel Mills, Paper, Cement, Petroleum Industries, etc.



## DEPARTMENT OF CIVIL ENGINEERING

The Department was established in 1984 and the college has been offering Civil Engineering course right from its inception. A Separate block has been provided for civil engineering with well furnished class rooms, laboratories and departmental library with good collection of books and journals. The various laboratories in the department are Strength of Materials lab, Soil Mechanics lab, Concrete lab, Environmental Engineering lab.

Lectures are supplemented by participative methods of learning, assignments, seminars and industrial visits accordance with the nature of subjects.

### Civil Engineering Department also conducts 2 PG Programmes.

- ME Structural Engineering
- ME Construction Engineering and Management

### Course duration:

**B.E. 4 years / M.E. 2 years**

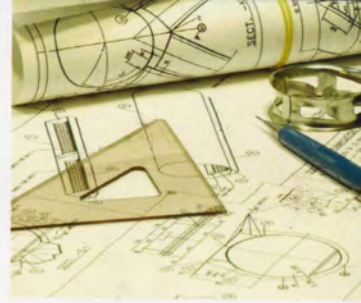
### Areas of study include:

- Building Materials
- Building construction Techniques
- Soil mechanics, Concrete Technology,
- Foundation Engineering
- Planning & Estimation
- Design, Analysis and Draughting
- Hydraulics
- Water treatment and distribution
- Environmental Engineering

- Transportation
- Pollution control
- Road, Airports, Harbour, Multistoried Buildings, Bridge, Dam construction techniques
- Project work & Industrial Visits

### Career opportunity:

- Engineer, Project Manager and Executives in Public works Department of State & Central Govt.
- National Highways Departments
- Airport, Harbour Development Authority
- Water treatment & Distribution Departments.
- Pollution Control Departments.
- MNC Contractors in India and Abroad
- Self Employment construction contractors.



## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

The Department was established in 1984, and The College has been offering Electronics and Communication Engineering. With an annual intake of 120 students. A separate block has been provided for ECE department with well furnished class rooms, laboratories and department library with collection of books, journals and project reports. Some of the prime laboratories in the department are Micro Processor & Micro controller lab, Electronics Circuits & Simulation Lab, Data structure Lab & OPP Lab, Digital Electronics lab, Communication System lab, VLSI design lab, Optical & Microwave lab.

Lectures are supplemented by participative methods of learning, assignments, seminars and industrial visits in accordance with the nature of subjects.

### The ECE Department conducts three PG Programmes

- ME – Applied Electronics
- ME – Communication Systems
- ME-VLSI Design

### Course duration:

**B.E.-4 years/M.E. – 2 years**

### Areas of study include:

- Electronics circuits design and Development
- Communication techniques
- Optical & Microwave Communication
- Network, VLSI Design
- Data structure and OOP

### Career opportunity:

Project Engineer, Company executives with higher package in MNCs, BSNL, ERDC, IT industries, ISRO Techno parks, Communication fields, Teaching and R & D Fields.

The Electrical Electronics Engineering Department was established in 1987 and it is functioning in a separate block with spacious lecture halls and well equipped laboratories.





## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

**The EEE department is also offering two PG programmes namely:**

- ME – Power System Engineering
- ME – Power Electronics and Drives

**The EEE department has the following specialized Laboratories:**

- Electrical Machines Lab
- Control System Lab
- Power Electronics Lab
- Power System Simulation Lab

**Course duration:**

**B.E. -4 years / M.E. -2years**

**Areas of study include:**

- Electro Magnetic theory
- Electrical Machines
- Power Plant Engineering
- Electron Devices and circuits
- Control Systems
- Power Electronics

**Career opportunity:**

Project Engineer, Company Executives in MNCs, Central and State Govt. Electricity Board, Power Plants, Electrical Machines, Equipments Manufacturing Units, IT industry, Teaching, R&D sectors, etc.,

This Department is progressively led by eminent faculty members. It has well equipped labs with efficient technicians to guide the students in their practical classes. The students participate in technical seminars and mini projects in the department.





## DEPARTMENT OF ELECTRONICS & INSTRUMENTATION ENGINEERING

**The Department of Electronics & Instrumentation houses major labs with sophisticated equipments and instruments such as:**

- Process control system lab
- Transducers and measurement lab
- Virtual instrumentation lab
- Micro processor & Micro controller lab
- Instrumentation system Design Lab

**Course duration: B.E. – 4 years**

**Area of study include:**

- Transducer engineering
- Industrial instrumentation Techniques
- Industrial electronics
- Industrial data networks
- Power Plant instruments

**Career opportunity:**

Project Manager and Executives in MNCs, IT Industries, Power plants, Offshore Rigs, Petroleum Refineries, Chemical Industries, Both at India as well as abroad.





## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING AND INFORMATION TECHNOLOGY



The Computer Science and Engineering Department was established in the year 1987. The college offers both Computer Science and Engineering and Information Technology programmes. A separate block has been provided with well furnished Class Rooms and Computer Labs. Around 900 Computers are available to the students to meet the challenges of the highly competitive software market. A separate hardware lab gives a very good practical knowledge.

### The Department also offers one PG Programme namely

ME – Computer Science and Engineering

### Course duration:

BE – 4 years/ME - 2 years

### Area of study include:

- Data structure
- Object oriented programming
- Digital Principles & System Design
- Operating System
- Computer organization & Architecture
- Software Engineering
- Artificial intelligence
- Network

### Career opportunity:

To become a Software Engineer, Project Leader, Company Executive in MNCs IT industries etc.,

Web Design Experts, Professor, Asst. Professor in Engineering Colleges.

Research and Development works in ISRO, BSNL, Central & State Govt. Departments.





## DEPARTMENT OF MANAGEMENT STUDIES (MBA)



The department of Management Studies is one of the prestigious institutions among the Rajas which was established in the year 1995, approved by AICTE vide Letter No. F.No. 431/45-79/BOS(M)95 and affiliated to Anna University, it offers a full time PG Programme in Business Administration (MBA)

### Specialisation available are:

- Marketing
- Finance
- Human Resource Management
- Personal Management

**Course duration: 2 years**

### Areas of study include:

- Marketing for managers
- Leading People in organization
- Accounting for managers
- Managing operations
- Executive development
- Business and Strategic management
- Financial markets
- Theory into practice project

### Career opportunity:

Over the duration of the course you will network with other students, the course team as well as have opportunities to go for presentations and lectures provided by the knowledge Network which is a vibrant and lively meeting point for business people to share their knowledge and opportunities.





## DEPARTMENT OF **COMPUTER APPLICATION (MCA)**



The Department of Computer Application was started in the academic year 1998 -99 approved by the AICTE vide No. F.No. T.N. 02/MCP.CS/98 dt 16.07.99 and affiliated to Anna University. It is a 3 years PG Programme, under the dynamic leadership of Senior Professors and Asst. Professors From 2013-14 lateral entry (Direct II Year) admissions have been approved by DOTE.

**Course duration: 3 years**

### **Areas of study include:**

The Knowledge and skills required in the theory, strategy, Practice and project management of the development of internet based systems.

### **Career opportunity:**

It is anticipated that upon completion of the course, graduates will possess skills and knowledge to have a string impact in an organization. Students will have had the opportunity for reflective and critical evaluation of their capability both as a team worker and independent learner and this will ensure that students are well – placed to begin a career in a wide range of areas. During the course, students will have extensive networking opportunities within the wider course team as well as the University.







## HOSTEL

- Provides separate hostels for boys and girls, with attached bathrooms at different locations.
- Cottages, Apartment facilities are provided in addition to rooms.
- Internet, Gym and first aid facilities in hostels.
- Film show, cultural events and games,
- Food of International Standards provided.

## INDUSTRIAL VISITS

Industrial visits are organized as part of the curriculum to various industries / companies throughout India. This opens up a wide scope of excellent opportunities for the students.

## SPORTS / STADIUM

There are sufficient number of Stadiums and Playgrounds for different games at different locations. The College has a separate Gym for boys and girls. TIEC students regularly take part in District Level and State Level meets. Our College hosts various intercollegiate indoor/outdoor sports and games competitions.

## INTERNET

BROADBAND and VSAT high speed internet connection General Computing Centre provides access to all students to browse, send emails and do researches in the campus, from 7 am to 9 pm. Boys and Girls hostels have separate Internet Center and some of the additional facilities are provided to our students are such as:

- On campus employment while studying
- Wireless LAN for internet, email access.
- Weekend Movie Theatre.
- All hostels are provided with Television.
- The College provides close circuit cable network 24 hours.
- Hostellers Sports Meet.
- Prayer cell Associations.
- Indoor Games
- Exclusive Dining Hall with Hygienic Food Prepared in the Modern way.
- Hostel Tours and Picnics.

## LIBRARY

- Library has a wide collection of books on various branches and topics.
- More than 40,000 volumes of Technical Books.
- More than 200 titles of National / International Journals, e-journals.
- Delnet, British Library Membership.
- Magazines and news letters from IEEE, ASME, ASCE, Computers etc.
- Back up volumes of all journals on E-library, CD Library.





**Dr. S.A. Joy Raja**, MBA, Ph.D (USA)  
Chairman

## **RAJAS INSTITUTES**

Raja Nagar, Vadakkangulam-627116, Thirunelveli District, Tamil Nadu, India  
Phone: 04637-230256, 232021, 232022, Fax: +91 4637-232023  
E-mail: info@rajas.edu  
www.rajas.edu



## **LEADING RAJAS INSTITUTES**

### **Rajas Engineering Collage**

(Also know as The Indian Engineering College)

Vadakkangulam, Ph : 04637-232021, 232022, 232023, 230256

### **Rajas International Institute of Technology for Women**

Nagercoil, Ph: 04652-272223, 272224, 272225

### **The Indian Polytechnic College**

Vadakkangulam, Ph: 04637-232042, 230256

### **Rajas Engineering College, MCA Institution**

Vadakkangulam, Ph: 04637-232021, 232022, 232023, 230256

### **The Rajas International School**

Nagercoil, Ph: 04652-276365, 277087

### **The Rajas International School**

Kottayam, Ph: 0481-2435201, 2435101

### **Sardar Raja Arts & Science College**

Vadakkangulam, Ph: 04637-231311, 230256