# SETHU
## INSTITUTE OF TECHNOLOGY

## Vision

To promote excellence in technical education
and scientific research for the benefit
of the society

## Mission

▌ To provide quality technical education to fulfill the aspiration
of the student and to meet the needs of the Industry
▌ To provide holistic learning ambience
▌ To impart skills leading to employability and entrepreneurship
▌ To establish effective linkage with industries
▌ To promote Research and Development activities
▌ To offer services for the development of society through education
and technology

# PROGRAMMES
## OFFERED

### Under Graduate
#### Programmes

B.E. Mechanical Engineering *

B.E. Computer Science and Engineering *

B.E. Electronics and Communication Engineering *

B.E. Electrical and Electronics Engineering *

B.Tech. Information Technology *

B.E. Civil Engineering

B.E. Biomedical Engineering

B.Tech. Agricultural Engineering

B.Tech. Computer Science and Business Systems

B.Tech. Biotechnology

B.Tech. Artificial Intelligence and Data Science

B.E. Computer Science and Design

B.E Computer Science and Engineering
(Artificial Intelligence and Machine Learning)

B.E Computer Science and Engineering (Cyber Security)#

B.E Computer Science and Engineering (Internet of Things)#

B.Tech. Chemical Engineering#

* Accredited by NBA, New Delhi under Washington Accord (Tier-I)
# Subject to Approval by AICTE, New Delhi

### Post Graduate
#### Programmes

M.E. CAD/CAM

M.E. Communication Systems

M.E. Computer Science and Engineering

M.E. Power Electronics and Drives

M.E. Structural Engineering

# Brief History of The Institution

Sethu Institute of Technology, the brainchild of our Founder & Chairman, Mr.S.Mohamed Jaleel, who has been rendering noble service since 1995 for the growth of the educationally, industrially and economically backward rural areas. Sethu Educational Trust established the College with a motto of "Knowledge, Service and Progress", on Madurai – Tuticorin National Highway (NH 45B), Pulloor, Kariapatti, Virudhunagar District at 12 km from Madurai airport.

Sethu Institute of Technology, established with three disciplines of 4 year B.E. Degree programmes with an initial intake of 180 students has recorded a stupendous growth to offer courses in thirteen disciplines of B.E./B.Tech. and five disciplines of 2 year M.E. degree programmes with a total intake of 1290 students.

The college is approved by All India Council for Technical Education and affiliated to Anna University, Chennai. The college obtained ISO certification in the year 2002. The college has been conferred Autonomous status in the year 2012 by University Grants Commission(UGC), New Delhi. The college is accredited by National Assessment and Accreditation Council(NAAC) with 'A' grade. Many programs of the college have been Accredited by NBA since 2006. The programs of MECH, CSE, ECE, EEE and IT are accredited by National Board of Accreditation(NBA), New Delhi under Tier-I, Washington Accord. The degree obtained by the students of NBA Accredited Programs are recognized among the member countries of Washington Accord throughout the world.

The College offers the students a range of learning opportunities and is committed to imparting holistic and value based professional education to the students. The faculty members are leading professionals in their fields of practice and effective teaching, mentoring and research work are their top priorities. The college has been making rapid strides in academic performance, infrastructure development, employability of its graduates, service to the society, industry institute interaction and research work.

**Sethu**
Institute of Technology
An Autonomous Institution

"Knowledge, Service and Progress"

## Founder & Chairman

The founder and Chairman, Mr.S.Mohamed Jaleel,B.Sc.,B.L., strongly believes that providing quality technical education is a noble service to the society . He has great ambition to provide excellent academic ambience and higher education in south Tamil Nadu. He has been serving the needy ever since his school days.  He was an illustrious student in St.Joseph's College, Trichy. He came out with flying colours and joined law and was awarded a Degree of Bachelor of Law by Madras Law College. With a vision to impart technical knowledge to the economically, socially and industrially backward people, the Founder & Chairman established Sethu Insititute of Technology at Pulloor village near Kariapatti in Virudhunagar District in the year 1995. He has been successful in his pursuit of offering quality education to rural poor. Thousands of rural students are being benefited by his philanthropic attitude. His outstanding service to the humanity has crowned him with many awards like Communal Harmony Award by Victoria Edward Hall, Madurai.

He is the President of self-financing Engineering College Management Association of Anna University – Tirunelveli.  He was a member of the Vice-Chancellor search committee of Madurai Kamaraj University in the year 2001.  He was also nominated as Syndicate Member of the Anna University – Tirunelveli in the year 2008. His service to the rural people is a constant endeavour that makes him a living legend.  It is the courage and conviction of our Chairman that has taken Sethu Institute of Technology to soaring heights within a span of  twenty eight years.

# Management
## Profile

### Chief Executive Officer

Mr.S.M.Seeni Mohaideen, B.Com.,MBA., is the trust member of Sethu Educational Trust and also the Chief Executive Officer. He is a personality with heterogeneous abilities that map into his performance. He did his Master's in Business Adminstration at The New College Institute of Management, University of Madras .

The Chief Executive Officer was the Syndicate member of Tamil Nadu Open University and also the former President of Tamil Nadu Football Association. He is a sportsman and an athlete nurturing the sporting spirit which is vital for the wholesome development. His proactive nature in academic planning has helped Sethu Institute of Technology witness a phenomenal growth in academic and professional stature continuing to add new dimensions.

### Joint Chief Executive Officer

Mr. S. M. Seeni Mohamed Aliar Maraikkayar, B.E.,M.E., MBA., ( Ph.D ) is the trust member of Sethu Educational Trust and also the Joint Chief Executive Officer. He is an outstanding administrator who evinces a keen interest in the development of the institution. He did his Master's in Business Adminstration at Coventry University, London, UK.

He is armed with an infallible spirit of fortitude awakening in raising the educational of students to the pinnacle of excellence.

The Joint Chief Executive Officer has obtained a grant of Rs.50 Lakhs for his R&D Projects

# Management
## Profile

### Director -Administration

Ms. S.M. Nilofer Fathima, B.E.,M.B.A, is the trust member of Sethu Educational Trust and also the Director Administration. She is an efficient administrator and she meticulously plans for the growth and development of the Institution. She did her two fold MBA in Madurai Kamaraj University and Anna University.

She has perfect blend of Professional Excellence and Intellectual Accomplishments. As the Director of Administration, she empowers the college to promote excellence in engineering, technical and professional education.

### Director - R & D

Dr. S. M.Nazia Fathima, B.Tech.,M.E., Ph.D., is the trust member of Sethu Educational Trust and also the Director R&D. She is a prominent scholar with comprehensive proficiency in research and development activities.

As the Director of R&D, she is an indomitable personality with a vision to fortify the Institution through her novel ideas in the expanse of research. She is a technical prodigy and her expertise pilots the institution in the path of glory.

The Director - R&D obtained an award of Rs.11 lakhs under the DST – Lockheed Martin – Tata Trusts IIGP 2.0 University challenge 2019.

## Principal's Desk... ▶



### We Warmly Welcome

We warmly welcome you to the portals of Sethu Institute of Technology, a centre of excellence in technical education. Sethu Institute of Technology aims to impart quality technical education to all the students. We provide a holistic learning ambience with well-qualified and dedicated faculty members.

Our students are motivated to excel in their studies. We provide ample opportunities to participate in technical competitions, cultural programmes and sports activities. We care to provide training to the students and place them through campus interviews. Faculty and students are motivated to involve themselves in research and development activities to become competitive professionals and contributing citizens.

With hearty wishes,

Dr.A.Senthil Kumar
Principal

## Accreditation and Research Centres Details

▸ The College is accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade.

▸ The following programmes have been accredited by National Board of Accreditation (NBA), New Delhi under Tier-1 (Washington Accord):

- B.E. Mechanical Engineering
- B.E. Computer Science and Engineering
- B.E. Electronics and Communication Engineering
- B.E. Electrical and Electronics Engineering
- B.Tech. Information Technology



## Approved Research Centres

The College has Research Centers approved by Anna University, Chennai to pursue Ph.D. research work in the following departments

| | |
|---|---|
| ● Department of Mechanical Engineering | ● Department of Electrical and Electronics Engineering |
| ● Department of Computer Science and Engineering | ● Department of Physics |
| ● Department of Electronics and Communication Engineering | ● Department of Chemistry |

## ADMISSION CRITERIA FOR
### NRI / FN / PIO / OCI / CIWGC SEATS

### Minimum Eligibility Marks for NRI

| S.No | Community | A Pass with Minimum average marks in Mathematics, Physics and Chemistry put together in the qualifying examinations | |
|------|-----------|------|------|
| | | NRI | FN / PIO / OCI / CIWGC SEATS |
| 1 | General Category (OC) | 45 % | |
| 2 | Reserved categories including BC / BCM / MBC / DNC / SC / SCA / ST | 40 % | 45% |

Candidates must have passed the qualifying examinations, Indian System ( 10+2 Pattern ) or its equivalent ( Completed 12 years of school education ).

**The candidates must have studied in English Medium.**

### Non-Resident Indian (NRI)

Non-resident Indians are people of Indian birth or descent who live outside the Republic of India. An Indian Citizen who stays abroad for employment / carrying on business or vocation outside India or stays abroad under circumstances indicating an intention for an uncertain duration of stay abroad is a non-resident.

### Foreign Nationals (FN)

# RESIDENCE FOR NRI

**Hostels of International standards with Air- conditioned rooms are available for students.**

# SETHU RESEARCH FORUM

Sethu Research Forum promotes Research activities and around 150 faculty members are doing Research and Innovation work in various fields. With the fruitful effort of the Research Forum, our College has obtained funds for Research and Innovation activities.

## Research and Development Activities:

- The College has approved Research Centres of Anna University, Chennai for the Departments of Mech, CSE, ECE,EEE, Chemistry & Physics
- More than 100 Faculty members have completed their Ph.D. and 90 Faculty members are pursuing their research in various Institutions leading to Ph.D. degree.
- More funded projects from various agencies like DST, DRDO, EDII, DST-SEED,NIAM-Startup, UBA, H-Social creator are in progress with a total amount of Rs.701 Lakhs.
- Our faculty members have published more than 600 research papers in the reputed Peer reviewed Journals.
- The College has received Funds for Improvement of Science and Technology from the Department of Science and Technology (DST-FIST)
- The College has received funds from AICTE for Modernization of Laboratories (MODROBS)
- The College has been recognized as Scientific and Industrial Research Organisation (SIRO) by the Department of Scientific and Industrial Research (DSIR).

## ASTOUNDING ACHIEVEMENTS IN RESEARCH & DEVELOPMENT

In All India level Sethu Institute of Technology has been sanctioned the highest number of Innovative projects with a Total Grant of Rupess One Crore Eleven Lakhs and Seventy Five Thousand (Rs.1,11,75,000) by MSME, Government of India

We are also happy to announce that Sethu Institute of Technology won the first place in the All India Start-up Agribusiness Incubation Program held in Rajastan and received Rupees Twenty Five Lakhs (Rs.25 Lakhs) from the Ministry of Agriculture Government of India

| Rs.323 | Rs.168 | Rs.101 | Rs.125 | 21 |
|--------|--------|--------|--------|-----|
| Lakhs for Research Grants | Lakhs for Innovation & Startup Funding | Lakhs Fund for Lab Modernization | Lakhs for Funded Programs | Patents & Copyrights |

# SETHU RESEARCH FORUM

## MICRO, SMALL AND MEDIUM ENTERPRISES (MSME) PROJECTS

In All India level competition, the College was sanctioned highest number of projects by **Micro, Small and Medium Enterprises (MSME)** with a total grant of Rs.111.75 Lakhs

**MSME**
**Rs.111.75 lakhs**

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**Team Members:**
Ms.A.Sabah Afroze, Research Scholar.
Dr.R.Tamilselvi, Professor/ECE
Dr.M.Parisa Beham, Professor/ECE

**Title of the Project:**
Detection of Osteoarthritis using Thermal Images

Sanctioned Amount: Rs.15 Lakhs

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**Team Members:**
Mr.S.M.Seeni Mohamed Aliar Maraikkayar, Research Scholar.
Dr.R.Tamilselvi, Professor/ECE
Dr.M.Parisa Beham, Professor/ECE

**Title of the Project:**
Bionic Arms for Amputees

Sanctioned Amount: Rs.15 Lakhs

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**Team Members:**
Ms.A.Sabah Afroze, Research Scholar.
Dr.R.Tamilselvi, Professor/ECE
Dr.M.Parisa Beham, Professor/ECE

**Title of the Project:**
Sanitary Napkin Disposal Machine

Sanctioned Amount: Rs.15 Lakhs

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**Team Members:**
Dr.S.Sivaranjani, Professor & Dean (CS & IT)
Dr.V.Akilandeswari, Associate Professor/IT

**Title of the Project:**
Automated Bagging Machine for the Oyster Mushroom Cultivation

Sanctioned Amount: Rs.15 Lakhs

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**Team Members:**
Dr.V.Akilandeswari, Associate Professor/IT
Dr.S.Sivaranjani, Professor & Dean (CS & IT)

**Title of the Project:**
Smart Assistive Robot for Hearing Impaired Children

Sanctioned Amount: Rs.15 Lakhs

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**Team Members:**
Dr.R.Tamilselvi,Prof/ECE
Dr.J.Vairamuthu,ASP/Mech
Mr.M.Venkat, IV Mech

**Title of the Project:**
Tyre Pressure Regulator

Sanctioned Amount: Rs.15 Lakhs

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**Team Members:**
Dr.P.Meenalochini, Associate Professor/EEE
Ms.V.S.Chitra, Assistant Professor/EEE
Sri Varshini, III EEE

**Title of the Project:**
LTLC Detector

Sanctioned Amount: Rs.10.75 Lakhs

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**Team Members:**
Dr.M.Sheik Dawood, Professor/ECE
Ms.Devika, Assistant Professor/ECE
Ms.Brindha, IV ECE

**Title of the Project:**
Biopolymer for Eco-Friendly Bags

Sanctioned Amount: Rs.11 Lakhs

# SETHU RESEARCH FORUM

## Projects Sanctioned by National Institute of Agricultural Marketing (NIAM)

**Team Members:**
Dr.M.Parisa Beham, Professor/ECE
Dr.R.Tamilselvi, Professor/ECE

**Title of the Project:**
E-Cotton

Sanctioned Amount: Rs.25 Lakhs

## Projects Sanctioned By DST - SEED

**Team Members**
Dr.R.Tamilselvi,Professor/ECE
Dr.M.Parisa Beham, Professor/ECE
Dr.A.Merline, Professor/ECE

**Title of the Project:**
Fetal stress monitoring device

Sanctioned Amount: Rs.21.48 Lakhs

## Projects Sanctioned By Hyundai Motor India Limited

**Team Members:**
Dr.R.Tamilselvi, Professor/ECE
Dr.M.Parisa Beham, Professor/ECE

**Title of the Project:**
FEMCARE

Sanctioned Amount: Rs.15 Lakhs

## Projects Sanctioned By Entrepreneurship Development Institute of India (EDII),Tamilnadu

**Team Members:**
Dr.R.Tamilselvi, Professor/ECE
Dr.M.Parisa Beham, Professor/ECE
Mr.S.M.Seeni Mohamed Aliar Maraikkayar, Research Scholar
Ms.T.Ruba, Assistant Professor/ECE

**Title of the Project:**
AI and IoT based Smart Aquaculture System

Sanctioned Amount: Rs.2 Lakhs

## Projects Sanctioned By Entrepreneurship Development Institute of India (EDII), Tamilnadu

**Team Members:**
Ms.V.Vaishnavi,Assistant Professor/EEE
Dr.S.Vijayarajan, Associate Professor/EEE

**Title of the Project:**
Non-invasive Infant Health Monitoring Device

Sanctioned Amount: Rs.2.61 Lakhs

## Projects Sanctioned By Entrepreneurship Development Institute of India (EDII), Tamilnadu

**Team Members:**
Dr.S.Vijayarajan,Assoc. Professor/EEE
Ms.V.Vaishnavi,Assistant Professor/EEE

**Title of the Project:**
Non-invasive Glucometer

Sanctioned Amount: Rs.2.51 Lakhs

## Projects Sanctioned By Unnath Bharat Abhiyan (UBA)

**Team Members:**
Dr.M.Parisa Beham, Professor/ECE
Dr.R.Tamilselvi, Professor/ECE
Mr.A.Nagaraj, Assistant Professor/ECE

**Title of the Project:**
Liquid waste Management

Sanctioned Amount: Rs.1 Lakh

## Projects Sanctioned By Tamil Nadu Student Innovators (TNSI)

**Team Members:**
Dr.R.Tamilselvi, Professor/ECE
Dr.M.Parisa Beham, Professor/ECE
Selvan Manobala, IV ECE
Selvan Manoj Kumar, IV ECE

**Title of the Project:**
FEMCARE

Sanctioned Amount: Rs.1 Lakh

**₹11 Lakhs** — Received cheque From DST-Lockheed Martin-Tata Trusts IIGP 2.0 - University Challenge for the Project entitled "OsteCheX - A Handheld device to measure bone density from X-Ray Images"

# Research & Development
## IPR Patents & Design

| | |
|---|---|
| Adjustable Breakdown Warning Alarm and Light Lantern | Remote Operating Movable Fire Extinguisher |
| Side Wind Screen and Rear View Mirror Wipers | Fire Extinguisher with Automatic Movable Water and Power Sprinkler System for Confined Place |
| Pre Fabricated Foldable Refrigeration Device | Rearview Mirror With Wiper For Vehicles |
| Wiper For Vehicle Door | Portable Hydraulic Liftable Light Stand |



**Sethu**
Institute of Technology
Estd : 1995

## IPR Patent Filed by Our College

| Filed | 21 |
|---|---|
| Granted | 11 |

Our college encourages the faculty members to file patents rights for their innovative research work. Students are also encouraged to do innovative projects. patents right awareness programs are conducted to obtain more patents. The fruit of the innovative research activity is read by the patents obtained by the college.

## TOTAL GRANT RECEIVED FROM VARIOUS FUNDING AGENCIES
## ₹ 5.9 Crores

**Team Mentors :** Dr S.SivaRanjani, Prof & Dean (CS&IT),
Dr.S.Rathnamala, HoD,AI&DS and
Dr.C.Parameswari,Assoc. Prof., IT



**Team Mentors :** Dr.M.Parisa Beham Prof & Head / ECE,
Dr.R.Tamilselvi, Prof & PG Head / ECE and
Mr.J.Vairamuthu, Asst Prof / Mech

Selvi. Sneha S A and Selvi. Durga, ECE and MECH Department Students represented India in Throw ball Game in Indo-Nepal Championship held at NEPAL and Won Gold Medal (Winner) for our Country.

- Selvi.Rajee V, Final year ECE, Sethu Institute of Technology participated in Indo-Nepal championship held at NEPAL on 01.08.2022-05.08.2022 and secured a FIRST PLACE GOLD MEDAL in 800 mts.
- Selvan.M.Jegatheeswaran, Final year BME, Sethu Institute of Technology participated in Indo - Nepal Championship held at NEPAL on 01.08.2022-05.08.2022 and secured a FIRST PLACE GOLD MEDAL in 100 mts.
- Selvan.M.Jegatheeswaran, Final year BME, Sethu institute of Technology participated in All India National Championship held at Delhi Rajiv Gandhi Stadium from 06.08.2022 to 10.08.2022 and secured a FIRST PLACE GOLD MEDAL in 100 mts.

# State Level Karate Championship Award



Selvan M.Thoufiq Mohamed Ansari, III year BME, won Gold Medal - State Level Karate Championship organized by Leo Goju Ryu Sports Karate Association do India, held on 11th September 2022

**Longest duration to hold Vajrasana yoga pose**
The record for holding the Vajrasana yoga pose for the longest duration was set by S.Veera Manikandan (born on May 24, 2003) of Virudhunagar, Tamilnadu He performed for 1 hour, 10 minutes and 4 seconds, as confirmed on June 13, 2022.

Selvan. S. Veera Manikandan(21EC112), Department of ECE won Gold medal in the event of Yoga organised by Noida College of Physical Education, Noida, Uttar Pradesh on 5th Sep 2022. He also won First place in the event of Artistic Yoga organised by First National Level Yoga Championship held at Vivekananda Kendra, Kaniyakumari, Tamilnadu on 11th Sep 2022.

# Training & Placement Cell

Training & Placement Cell forms the backbone of the modern education system. The Placement Cell is dedicated to facilitate 100% placement for the students studying in this institution. It is powered with a team of untiring faculty members from all departments assisting the Dean Placement and the Placement Officer. The Placement Cell has organized about 123 Placement Programs both On - Campus and Off-Campus and Placed 828 students during the academic year 2021 - 22.

The Training Division hones the innate talents of the students. The Training Division provides training on the areas where the students need to build skills. The team of Training Division exhibits its potential by bringing guests from reputed organizations to update the latest skills required in the industry in an industry perspective. The Training and Placement cell is exclusively working for the following thrust areas.

▶ Quantitative and logical reasoning ▶ Communication and soft skill ▶ Technical training in C, C++, Java etc.,
▶ Technical training in Core Subjects

## Business English Certificate Course (BEC)

## Foreign Language Training

● Japanese ● French ● German

## Memorandum of Understanding Signed (MoU)

In order to bridge the gap between the Institution and the Industry, our college has signed MoU with various renowned multi-national industries to cater the need of the students for In plant training, project assessment, internship as well as for recruitment. The following is the sample of few MoUs, the College has signed with the industries.
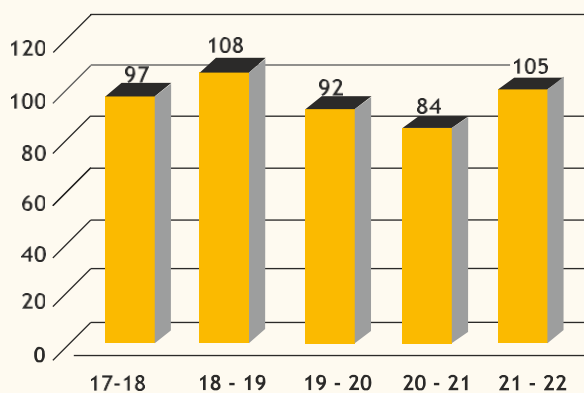
▶ *TATA Consultancy Services(TCS), Chennai*
▶ *IBM India Pvt Ltd. Bangalore*
▶ *Infosys Technologies Limited, Chennai*
▶ *TVS Infotech, Chennai*
▶ *Sure Soft, Pondicherry*
▶ *FL Smidth , Chennai*
▶ *Edify Path, Chennai*
▶ *Besant Technologies, Chennai*

## International Placements

The training and placement cell not only focuses on internal placements but also focuses on international placements too. The Training & Placement Cell undertakes lot of efforts to place our students in foreign countries. The following are the overseas companies who recruit our students
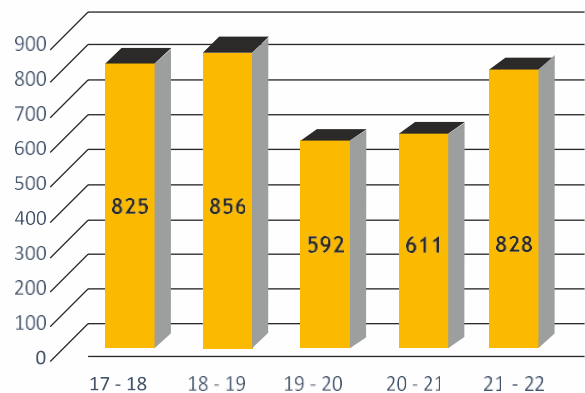
▶ *Huda lighting, Dubai*
▶ *Varian medical systems, Muscat*
▶ *Global suhami, Saudi Arabia*

### Number of Companies Visited

| Year | 17-18 | 18 - 19 | 19 - 20 | 20 - 21 | 21 - 22 |
|------|-------|---------|---------|---------|---------|
| Companies | 97 | 108 | 92 | 84 | 105 |

YEARWISE COMPANY VISITED

### Number of Students Placed

| Year | 17 - 18 | 18 - 19 | 19 - 20 | 20 - 21 | 21 - 22 |
|------|---------|---------|---------|---------|---------|
| Students | 825 | 856 | 592 | 611 | 828 |

YEARWISE PLACED

# Our Esteemed Recruiters



# Club Activities

Clubs are imperative part of college life. A club is a group of students organized with similar interest for a social, literary, or other common purpose. Students have the opportunity to choose and join these groups for many reasons including pursuit of individual interest, career networking opportunities, social camaraderie etc. All the students should be strongly encouraged to pursue club and organizational membership opportunities to help them enrich their college experience. The following are the active students clubs of the college.

## Clubs

I. Red Ribbon Club
2. Eco Club
3. Photography Club
4. Rotaract Club
5. Toastmasters club
6. Fine Arts Association
7. National Service Scheme
8. Youth Red Cross Society
9. Research Forum
10. Yi Club

## Cells

I. Women Empowerment Cell
2. Entrepreneurship Development Cell
3. Innovation Cell
4. International Relations Cell

This Cell has signed MoU with the following International Universities :

- **Asian Institute of Medicine, Science and Technology (AIMST) University, Kedah, Malaysia**
- **Multimedia University, Malaysia**
- **Infrastructure University, Kuala Lumpur**

# Glimpses Of Facilities

## ATM Centre

The ATM centre available on campus are highly beneficial to the staff, students and the public.

## Health Care

The faculty and students can make use of the dispensary located in the college premises. A Medical Officer visits the campus everyday. A residential nurse is available for medical care. An ambulance is available to meet any emergency.

## Reprographic Center

An exclusive Centre for reprographic facilities is available inside the campus to cater to the needs of students as well as staff.

## Post Office

Postal Service is available inside the campus and it is useful to the students and staff. The Post Office renders its service to the inhabitants in and around Pulloor.

## Stationery Store

A shop that has all kinds of stationery & eatables are available for the benefit of the students.

## Telecom Centre

The students utilize the services of telecommunications through the phones available in Telecom centre to make STD / ISD calls.

## Sewage Water Treatment Plant

As a part of sustainable development, The College has a Sewage treatment Plant (STP) worth Rs. 63 Lakhs with a treating capacity of 4 Lakh litres per day (400 KLD).

## Mineral Water

A mineral water plant with reverse osmosis provides clean drinking water to staff and students.

## Power Backup Unit

Three generators with the capacity of 320kVA, 125kVA, 82.5 KVA and 62.5 kVA provide uninterrupted power supply at the time of power failure.

## Solar Power Plant

Four Solar Generation Plants with total capacity of 73 KW provides uninterrupted power supplies

# Salient Features

## Sethu
### Institute of Technology
An Autonomous Institution

- Accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade

- The college has been consistently ranked under PLATINUM category in AICTE CII survey for the past 5 years.

- NBA Accreditation of Programs under Tier - 1 Washington Accord

- The College has been ranked at 56th Position in All India level among the Private Engineering Colleges in India by Times Survey 2018

- The college has been rated in AAA+ category among all affiliated Engineering Colleges of Tamil Nadu by CAREERS 360 Survey 2019

- Well equipped Labs in all branches and fast internet access with 1 Gbps & Wifi enabled campus

- More than 100 Ph.D. holders in all departments and more than 90 faculty members pursuing Ph.D

- Recognized as Scientific and Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology

- Total Grant Received from Various Funding Agencies ₹ 5.9 Crores

- Encouraging students for innovation and Research activities. More than ₹ 5 Lakh cash award for best innovation and research projects

- Preparing the students for the global market through Foreign Languages training in French, German, Japanese and BEC

- Enhancing the communication & leadership skills of the students by International Toastmasters Club & Gavel Club

- MoUs signed with Foreign Universities: AIMST University, Malaysia, MMU University, Malaysia & Infrastructure University, Malaysia

- Canteen with Non veg foods are available

- Separate hostel facilities with all amenities for both and girls.

- ✓ College is Permanently affiliated to Anna University, Chennai

- ✓ Competent, Experienced and Qualified Faculty members

- ✓ Departments of MECH, CSE, ECE, EEE, Physics and Chemistry have been recognized as Research Centres by Anna University, Chennai

- ✓ More than 95% of students have been placed in various MNCs every year

- ✓ State level Intellectual Property Rights Award for Fourteen Patents of Innovations

- ✓ Institution Innovation Council under MHRD with Three Star Status to promote Innovation
  - Student Privileges for Amazon Web Services (AWS)
  - Learning through Oracle Platform
  - Infosys Campus Connect Springboard
  - IIT-Bombay e-Yantra Robotics Lab
  - Centre of Excellence in Robotics, AI, IoT and Signal & Image Processing domains

- ✓ Modern and well equipped digital library with well stacked books and journals

- ✓ Well organized Training and Placement Programs offered to our students

- ✓ The Mineral Water plant with Reverse osmosis for drinking water to staff and students

- ✓ Mosque for Five times Prayers & Special Foods for Fasting are available in the campus

- ✓ Lift and Ramp Facilities are available for the Physically Challenged Candidates

- ✓ Choice Based Credit System ( CBCS )

- ✓ Medical facilities and 24 hours Ambulance  service

- ✓ Ideally located on the National Highways of Madurai – Tuticorin NH 45B

- ✓ Just 15 minutes travel from Madurai International Airport to college

- ✓ Bus and Train transport also available nearby

**Sethu**
**Institute of Technology**
An Autonomous Institution

# Glimpses of Lab Facilities

*T*he Department of Mechanical Engineering, the pioneer and the most popular branch of engineering offers both B.E. and M.E. degree programmes. The Department accreditation by NBA Tier – 1 (Washington Accord).The experienced faculty members persistently adopt innovative methods to set global Standards. It has modern laboratories to impart practical training. The Department is recognized as research centre by Anna University, Chennai.

The Department has received fund for modernization of laboratory from AICTE. The Department of Mechanical Engineering signed MoU with leading industries and offers consultancy work to Hi Tech Arai Pvt.Ltd., Sunpressing Pvt.Ltd., etc. The students have won in many National level competitions through the effective training of the Department.

**Sethu**
**Institute of Technology**
An Autonomous Institution

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science and Engineering keeps up with the pace of the information age that has universal permanence. The Department accredited by NBA under Tier I (Washington Accord). The department offers both B.E and M.E degree programmes. The department is recognized as research centre by Anna University, Chennai. The focus of the department is to produce computer engineers for the innovative systems and product development in hardware and software across all industries. Realizing the importance of rapid advancement in the recent technologies, all the labs including the research labs are well equipped, updated and upgrad as per the requirement and demand of industries.

The department has received fund for modernization of laboratory from AICTE. The department has organized many International/National Conferences, FDPs, Seminars and Workshops sponsored by various funding agencies like AICTE, DST, ISRO, CSIR, Anna University, and TNSCST. The department always motivates the students to participate in various national level contest and give effortless training in order to get a better placement.

**Sethu**
**Institute of Technology**
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# Department of Electronics & Communication Engineering

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

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The vast scope and growing demand for Electronics and Communication Engineering has made this programme the preferred career choice of many. The department offers quality education at both UG and PG levels. The department with its state –of –the-art laboratories and team of well qualified and dedicated faculty members has carved a niche in sculpting the students for a bright career. The department has been recognized as Research centre by Anna University, Chennai.

The department of ECE has received funds from DRDO for the Research project on Innovative antenna design using Nano ferrite materials. DST Lockheed Martin -Tata Trusts IIGP 2.0 for the research project on " Low cost BMD Device for Detection of Osteoporosis"

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

*T*he Department offers U.G. and P.G. programmes with the aim of producing sound technical background among the students in the areas of Electrical & Electronics Engineering.

The Department is embellished with competent members of faculty. The labs are well-structured with modern machines and equipment.

The feather in the cap of EEE department is successful launch of MNRE subsidiary project of 75kW solar photo voltaic power generation system and received a Project Grant of Rs.60 lakhs from DST and DRDO.

Consultancy work in the field of Energy Auditing and Automatic Power Factor Controller is carried out in companies such as Prabhu Paints, Unique Controls & Automation, PS Power Controls and Sundaram Industries Limited.

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DEPARTMENT OF INFORMATION TECHNOLOGY

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*T*he Department offers under graduate programme in Information Technology and it has state of Art Laboratory facilities and well qualified faculty members.

The Department enjoys a high placement record by offering highly employable & industry - ready Curriculum.

The Department travels an extra mile in equipping students to take challenging application based projects suitable for industry environment and motivating them to participate in symposiums and conferences.

The Department has been Re - Accredited by NBA Under TIER - I (Washington Accord)

The Department has signed MoUs with many leading industries and offering consultancy services in the field of web development, software development in India and abroad

# Department of Civil Engineering

$\mathcal{T}$he Department of Civil Engineering creates world class engineers with professional knowledge through advanced teaching learning methods.

The Department has well qualified faculty members and well equipped laboratories to promote technical knowledge and research. The Department has signed MoUs with many leading industries and consultancy is offered to Government Departments and Private Builders. The Department is recognized as research centre by Anna University, Chennai.

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**DEPARTMENT OF AGRICULTURE ENGINEERING**

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$\mathcal{A}$griculture Engineering (AE) is the area of engineering concerned with the design, construction and improvement of farming equipment and machinery. Agricultural engineers integrate technology with farming and use the latest technology to advance environmental issues and activities. Students have the opportunity to study machine components and equipment, testing agricultural machinery to ensure safety and performance and providing leadership on water and environmental concerns.

The agricultural engineer helps to make farming sustainable, safe, and environment friendly. He / She analyze agricultural operations and weigh the use of new technologies and methods to increase yields, improve land use, and conserve resources like seed, water, fertilizers and fuel.

An agriculture engineering degree will open doors around the world in large corporations and small businesses, including careers in tractor, irrigation, dairy and food processing industry, structural design, agricultural power and equipment design and more.
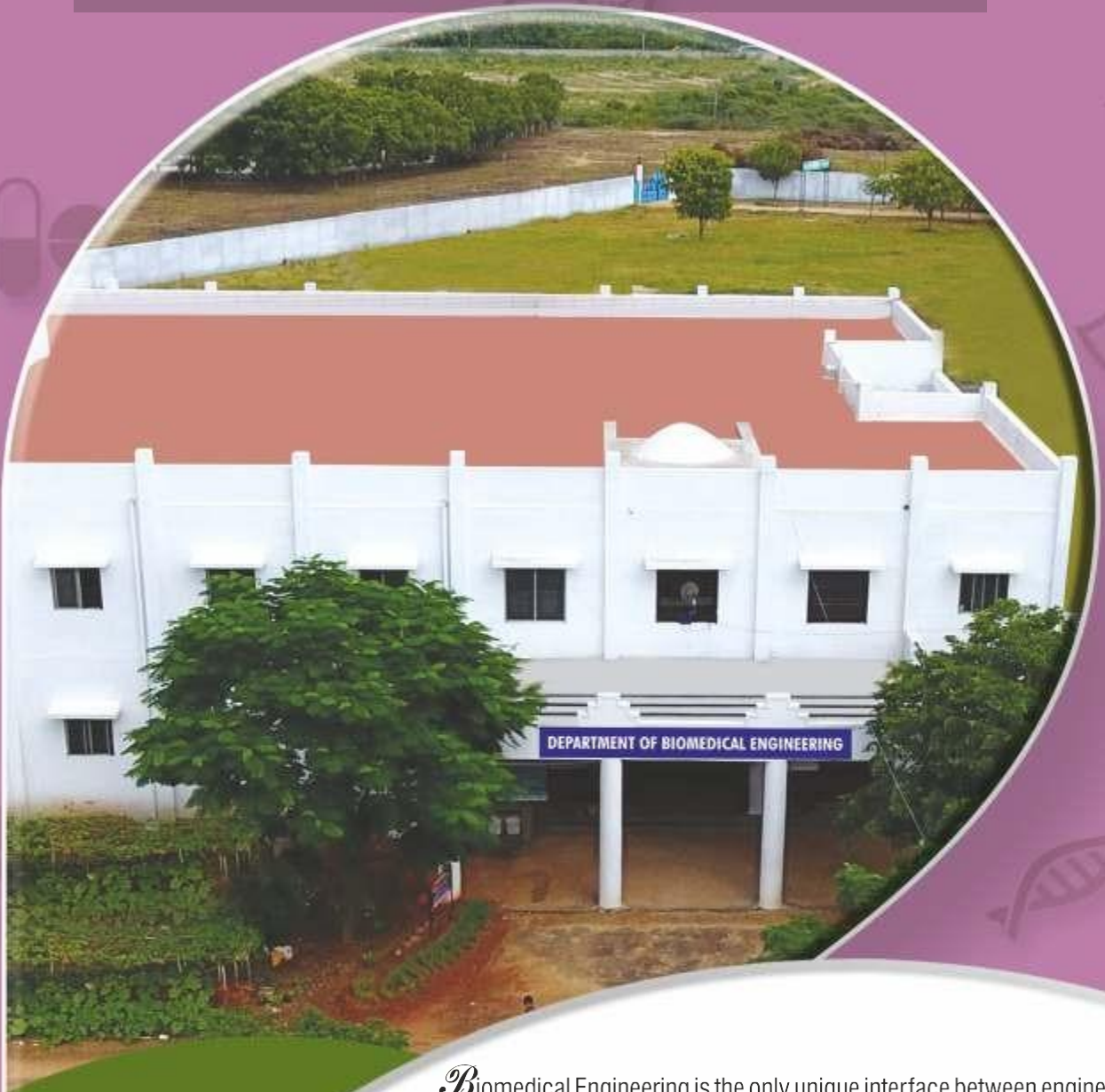
# Department of Biomedical Engineering



*B*iomedical Engineering is the only unique interface between engineering and healthcare in which knowledge of engineering can be utilized in healthcare to perfection. It involves studying all types of engineering ranging from Electronics, Computers, Mechanical, Chemical, Nanotechnology, Biotechnology along with Anatomy and Physiology. Biomedical Engineers help the doctors to design new instruments and procedures to diagnose diseases in early stage and treat them. Biomedical solutions impact the society to improve the lifespan of an individual. The enthusiastic and thoroughly professional team of faculty members backup the steady growth and development of the department.

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*O*n the event of 25th glorious year of serving Engineering Education in the state of Tamilnadu, Sethu Institute of Technology has introduced a new 4 year regular undergraduate - Bachelor of Technology degree programme in "Computer Science & Business Systems" (CSBS) with sanctioned intake of 60 from the academic year 2020-2021. CSBS is a highly recommended industry relevant programme in the field of Computer Science.

The Programme curriculum has been developed with the support of Tata Consultancy Services (TCS) with prime focus on Industry 4.0. Students graduating from the program not only know the core topics of Computer Science but also develop an equal appreciation of humanities, management sciences and human values. The students are also exposed to emerging topics such as Analytics, Machine Learning, Cloud Computing, Internet of Things etc to make them industry ready (100% Placement) at the end of four years of study. The course focuses on enhancing the following key attributes among graduating students

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- Understanding of Contemporary Technology
- Understanding of Technology Abstraction
- Knowledge of Common Business Principles
- Business Discipline and Service Orientation
- Innovation Ability
- Strong in Ethics and Life Values

# Department of Computer Science & Business Systems

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## Jobs Opportunities

- Database Designer / Administrator.
- Human-Computer Interaction Specialist
- IS or IT Management
- Management Consultant
- Management, Systems, or Operating Research Analyst

- Business Application Developer
- ERP Administrator
- Business Decision Support Specialist
- Internet or Intranet Manager
- Programmer
- Software Developer / Publisher

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Computer Science and design program is the best choice for the one who is willing to shine in IT industry as well as in media industry, gaming, animation, virtual / augmented reality etc.,. As the digital media is getting expanded day by day the need for presenting a content with creativity has increased abundantly. Individuals with the skills of creativity and design and the ability to build reliable software will be increasingly in demand. This program has computer science courses as well as design courses. One can build their career path by opting electives in computer science and design courses.There'll be an increasing focus on user experience, Interaction Design and Design Methods in all IT products and services.

# Department of Computer Science and Design

## Job Opportunities

- Software and systems designer
- Software engineer
- System architect
- User experience (UX) designer
- User interface (UI) designer
- Multimedia artist
- Art director
- Advertising & promotions manager
- Film & video editor

- Web designer
- Video game designer
- Flash Designer
- Creative Director
- Data Modeler/ Data Designer
- Research Designer
- Presentation Designer
- Animator
- Visual and Communication designer

# Department of Computer Science and Engineering
## (Artificial Intelligence and Machine Learning)

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B.E. Computer Science and Engineering (Artificial Intelligence and Machine Learning) is designed to provide knowledge and skills to the students enabling them to impart intelligence to systems and machines through programming.

- As modern systems provide intelligent solutions through machine learning, there is a vast scope for someone holding a professional degree in artificial intelligence and machine learning. With a huge explosion in data and its applications, a career in the field of AI&ML can be very promising as Big Data Engineer, Business Intelligence Developer, Data Scientist, Machine Learning Engineer, Research Scientist, AI Data Analyst, AI Engineer, Robotics Scientist, etc.

- With a specific job description on AI&ML, students have been recruited by reputed industries like Microsoft, Amazon, Goldman Sachs, Oracle GBU, Cisco, Dell Technologies, Accenture, among others. From the IT sector to healthcare, AI&ML has proven its worth.

- The future roles are many with AI&ML as the foundation. The graduates of the program can pursue higher education and research at premier national or international universities with a great future in research. Graduates from this program will be groomed towards their career prospects on par with Industry expectation

# Department of Computer Science and Engineering
*(Artificial Intelligence and Machine Learning)*

## Job Opportunities

- Artificial Intelligence Engineer
- Software and systems designer
- Software engineer - AI specialist
- System architect - AI specialist
- IT manager
- Business Analyst
- Data Analyst
- Database Administrator
- Data Architect
- Data and Analytics Manager
- Data Journalist
- Intelligence Analyst
- Data Manager
- Information Security Analyst
- Risk Analyst
- Machine Learning Engineer
- AI & ML Lead
- Data Scientist
- Deep Learning Engineer
- Data Engineer
- NLP Engineer
- NLP Analyst

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Cyber Security technologies, Procedures, and Practices are intended to guard Networks, Computers, Programs, and Data against detriment or unauthorized access. Cyber Security also deals with substantiation discovered in Cyberspace and Digital Storehouse Media. Therefore, it is crucial to have the right information security procedures in place to protect it. Cyber-attacks pose a threat to a wide range of sectors, including Small and Medium-sized Enterprises (SMEs), Healthcare, Government agencies, Energy, Higher Education, Information Technology and Telecommunications, Human Resources and Recruitment.

The specialization in Cyber Security is one of the most in-demand areas of IT, combining sophisticated security elements, practical application, and security implications within a company. This program will train the students for careers in Cyber Security, Application & Software Security, and Cyber Law Enforcement.
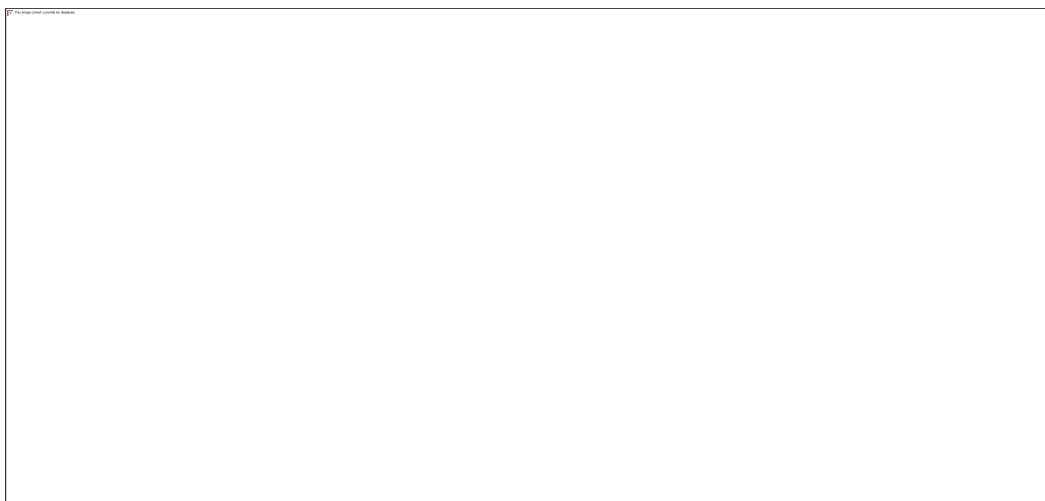
**Department of Computer Science and Engineering (Cyber Security)**

## Job Opportunities

- Network Security Engineer
- Cyber Security Analyst
- Cyber Security Architect
- Cyber Security Specialist
- Cyber Security Manager
- Cyber Security Officer
- Chief Information Security Officer (CISO)Cyber
- Defence Analyst
- Digital Forensics Investigator
- Digital Forensics Specialist
- Digital Forensics Analyst

The Bachelor of Engineering in Computer Science and Engineering (Internet of Things) emphasizes comprehensive knowledge of Computer Science, Sensors, Internet Applications, Computer Networks, and so on. Internet of Things (IoT) is a broad term that refers to a growing network of internet connected devices that have a variety of applications in engineering and science.

The students will learn about the advantages of a connected world and its importance in the real world. Here are some examples of IoT experiences:

- The interaction between the human world and physical devices is a one-of-a-kind experience.
- The future trends in IoT devices and their various components.
- Take information from the devices and use it to improve the techniques used in the business.
- The application of various tools and techniques to real-world problems, as it analyses and suggests appropriate solutions

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# Computer Science and Engineering (Internet of Things)

Job Opportunities

IoT/Cloud Software Developer

IoT Infrastructure Architect

IoT System Administrator

Vulnerability/Cyber Engineer

Security Engineer

Embedded Program Engineer

Test Engineer

**DEPARTMENT OF CHEMICAL ENGINEERING**

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Chemical Engineering is a discipline influencing numerous areas of technology. In broad terms, Chemical engineers conceive and design processes to produce, transform and transport materials - beginning with experimentation in the laboratory followed by implementation of the technology in full - scale production.

Chemical engineers are in great demand because of the large number of industries that depend on the synthesis and processing of chemical and materials

Chemical engineer will possess a complete and quantitative understanding of both the engineering and scientific principles underlying these technological processes.

# Department of Chemical Engineering

## Scope of Chemical Engineering

Scope of Chemical Engineering ranges from core Oil and Gas, Mineral processing, Pharma, Poylmers to Pollution Control.Chemical engineers are required both in Govt (BPCL, ONGG) and Private sectors.

Chemical Engineering graduates can find potential opportunities in sectors such as Petrochemical industries, Petroleum refineries, Cement Factories, Food Processing and Technology units, Fertilizer Factories, pharmaceutical industries, Biotechnology Sector, etc.

## Chemical Engineering are in demand at

- Mineral - based industries
- Synthetic fiber units
- Petroleum refining plants
- Chemical industry
- Textiles sector
- Plastics
- Explosives
- Paint Manufacturers.

# SETHU INSTITUTE OF TECHNOLOGY

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Affiliated to NBA, New Delhi for Mech, CSE, ECE, EEE and IT under Tier 1 (Washington Accord)
Approved by All India Council for Technical Education, New Delhi & Affiliated to Anna University, Chennai

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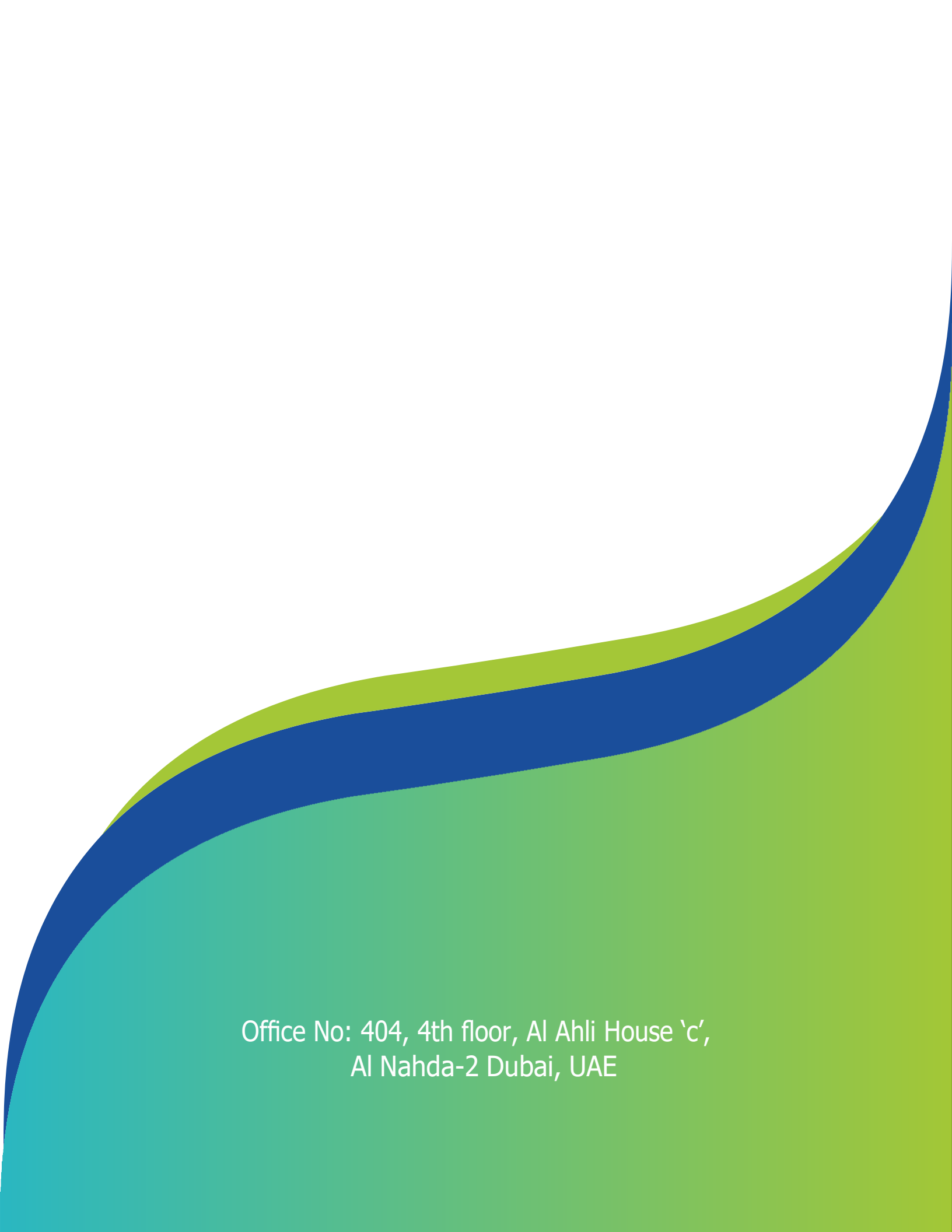## ● NEAREST TO AIRPORT ●

The college is situated near Madurai Airport and
it is just 15 Kms from the Airport. Madurai airport is well
connected with major cities of the world.

SCAN FOR
COLLEGE LOCATION

Office No: 404, 4th floor, Al Ahli House 'c',
Al Nahda-2 Dubai, UAE