

— NEC — BULLETIN — 2026 —



NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution - Affiliated to Anna University, Chennai)
K.R.Nagar, Kovilpatti - 628 503, Thoothukudi District



☎ 04632 - 222502, 93859 76674, 93859 76684 🌐 www.nec.edu.in ✉ principal@nec.edu.in



Code of Conduct

‘Manners maketh a man’. The aim of education is not merely acquisition of the knowledge, but also the development of character. Hence educational institutions have great responsibility of developing the holistic personality of the students. Students of the Engineering College should realise that they belong to a privileged class among the student community. Hence, they are expected to display self-imposed discipline and exemplary character. They are expected to abide by the below mentioned regulations and code of conduct which are primarily designed to channelise their potential for moulding them into good citizens.

- ▶ Students are expected to be courteous in speech and action while communicating with their staff and fellow students.
- ▶ They should follow the proper dress code and should maintain good manners. They should wear lab coats while attending the laboratory classes and workshops.
- ▶ Students should maintain dignity and decorum inside the college premises.
- ▶ Students should not indulge in any form of misconduct such as discrimination (Based on Individual's Gender, Caste & Religious beliefs) and intentionally damaging or destroying Institute property.
- ▶ Students should act in a way that highlights the discipline and esteem of the college while he/she is on and off campus.
- ▶ Ragging is strictly prohibited inside the campus.
- ▶ The genuine grievance of the students should be amicably settled only by peaceful negotiations with the authorities concerned.
- ▶ Disobedience, malpractice during Examinations, bad conduct and non-observance of the rules of the college shall be met with strong disciplinary action.

National Engineering College	
Managing Committee	
Tmt.Chennammal Ramasamy	Chairman
Thiru.K.R.Krishnamoorthy	Vice Chairman
Thiru.K.R.Arunachalam	Correspondent
Thiru.C.Sankaranarayanan	Secretary
Tmt.K.Vijayalakshmi	Member
Tmt.A.Chennammal	Member
Selvi.A.Shanmathi	Member
Selvan.A.Niteesh Ram	Member

Governing Board

Tmt.Chennammal Ramasamy M.Duraisampuram, Nalattinpathur - 628 716	Chairman
Thiru.K.R.Krishnamoorthy M.Duraisampuram, Nalattinpathur - 628 716	Member (Management)
Thiru.K.R.Arunachalam M.Duraisampuram, Nalattinpathur - 628 716	Member (Management)
Thiru.C.Sankaranarayanan Pazhankottai, Sankarankovil Tk. Tirunelveli Dt.	Member (Management)
Selvi.A.Shanmathi M.Duraisampuram, Nalattinpathur - 628 716	Member (Management)
Selvan.A.Niteesh Ram M.Duraisampuram, Nalattinpathur - 628 716	Member (Management)
Mr.L.S.Manivannan L.S.Mills Ltd., Post Box.12, Madurai Road, Theni-625531.	External Member (Industrialist, Managing Director Nominee of the Management)
-	University Nominee
Dr.P.Subha Karuvelam Professor (CAS) & Head, Department of Electronics & Instrumentation Engineering GCE, Tirunelveli-627007	State Govt.Nominee
Dr.A.Shenbagavalli Prof./Dean(Academic Affairs & Faculty Development), Dept. of ECE,	Member (Faculty nominated by the Principal)
Dr.M.A.Neelakantan Sr. Dean (I&FA) and R&D, National Engineering College	Member (Faculty nominated by the Principal)
Mr.P Jeevanandam	Member Administrative staff
Dr.S.Shanmugavel Director, National Engineering College	Member
Dr.K.Kalidasa Murugavel Principal, National Engineering College	Member Secretary (Ex-Officio)



NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution - Affiliated to Anna University, Chennai)

K.R.Nagar, Kovilpatti - 628 503, Thoothukudi District.

VISION

Transforming lives through quality education and research with human values.

MISSION

- ▶ To maintain excellent infrastructure and highly qualified, dedicated faculty.
- ▶ To provide a conducive learning environment with an ambience of humanity, wisdom, creativity and team spirit.
- ▶ To promote the values of ethical behaviour and commitment to society.
- ▶ To partner with academic, industrial and government entities to attain collaborative research.

A Brief History of the College

The College is set amidst sylvan surroundings against the backdrop of the Western Ghats. It has an excellent rural landscape and is far from the madding crowd. It provides an ideal atmosphere for academic pursuits. The college came into being in 1984, duly sanctioned under the self-financing scheme under the Government of Tamil Nadu. During the past forty three years, the college has grown and expanded phenomenally. Today it offers seven undergraduate courses and five postgraduate courses and the college is affiliated with Anna University. From the academic year 2011-12, the college has attained its autonomous status. It is approved by the All India Council for Technical Education (AICTE), New Delhi and is an institutional member of the Indian Society for Technical Education (ISTE).

Location

National Engineering College is situated in a 163 acre campus on the National Highway 44 (NH-44) between Kovilpatti and Tirunelveli, 4 km south of Kovilpatti and has easy accessibility either by road or rail. The Institution is 100 km from Madurai and 489 km from Chennai. Madurai is the nearest airport.

Courses Offered

The College presently offers the following courses.

B.E. Degree Programmes in

- ◆ Mechanical Engineering
- ◆ Electronics and Communication Engineering
- ◆ Computer Science and Engineering
- ◆ Electrical and Electronics Engineering
- ◆ Civil Engineering

B.Tech. Degree Programmes in

- ◆ Information Technology
- ◆ Artificial Intelligence and Data Science

PG Degree Programmes in

- ◆ Computer Science and Engineering (M.E.)
- ◆ High Voltage Engineering (M.E.)
- ◆ Embedded Systems Technologies (M.E.)
- ◆ Information Technology (Information & Cyber Warfare)(M.Tech)

All the UG courses are accredited by the National Board of Accreditation(NBA)-Tier-I. The institution is listed in the band 201 -300 NIRF Innovation ranking & is accredited by National Assessment and Accreditation Council with 'A' grade effect from 2022 for 5 years.

National Engineering College

DIRECTOR

Dr.S.Shanmugavel, B.Sc., D.M.I.T., Ph.D.,

PRINCIPAL

Dr.K.Kalidasa Murugavel, M.E., Ph.D.,

Sr.Dean (Institutional and Faculty Affairs(I&FA) & Research and Development

Dr.M.A.Neelakantan, M.Sc., Ph.D.,

Dean (Academic Affairs & Faculty Development)

Dr.A.Shenbagavalli, M.E., Ph.D.,

Dean (Industrial Relations and Alumni Association)

Dr.K.G.Srinivasagan, M.E., Ph.D.,

Dean (Institutional Partnership and Branding)

Dr.B.Paramasivan, M.E., Ph.D.,

CONTROLLER OF EXAMINATIONS

Dr.D.Manimegalai, M.E., Ph.D.,

Administration

The day-to-day administration of the institution is carried out by the Principal in consultation with the Director, the Chairman, and the Correspondent of the College.

Duration of The Course

The course for the Bachelor of Engineering and Bachelor of Technology degree shall extend over four academic years (8 consecutive semesters). The course for the Master of Engineering shall extend over two academic years (four consecutive semesters). Each semester normally consists of 90 working days or 450 hours or 540 periods of 50 minutes each.

Eligibility for the Degree

A candidate shall be eligible for the Degree if he/she has satisfactorily undergone the above period and has passed the prescribed examinations in the respective semesters.

Regulations for the Payment of Fee

The tuition fee for each year should be paid on or before the due date. Defaulters will have to pay the late fee along with the tuition fees. If the fees are not paid on or before the due date of the odd semester, the names of such defaulters will be removed from the ERP for attendance. Such students, in case of readmission, should pay a readmission fee of Rs. 500/- along with the arrear fee and late fee. A student will have to pay the fees for the whole year if his/her name is on the roll and attendance recorded during any part of the semester. All fees should be paid through the online process using the ERP (by visiting the College website) and by demand draft in the case of awaiting a bank loan.

Attendance

- ◆ Every student is expected to attend classes regularly and punctually.
- ◆ Students are not permitted to be absent from classes without getting prior permission/leave.
- ◆ Leave application should be submitted in the prescribed form to the Principal through the tutor concerned.
- ◆ In all cases where the need for leave can be foreseen, leave should be obtained in advance. In case of emergency or unforeseen circumstances as in the case of illness, leave application should be submitted on the day of reporting back to the college.
- ◆ The Principal may call for a medical certificate in support of an application for leave on grounds of illness.
- ◆ The minimum attendance prescribed by the University for admission to University End Semester Examination is 75%. The student is expected to secure not less than 75% attendance in each course in that semester.

Identity Card

Every student is given a smart card carrying his/her photograph and contact details on it. They should keep their smart card with them whenever they are within the college premises and produce it whenever they are asked for. Smart cards are given to both staff members and students.

Tutor System

Every student will be under the care and guidance of a faculty, who is appointed, as his /her tutor. About 20 students will be assigned to each tutor who will also act as their local guardian and assist them in all matters of academics as well as other activities. The tutor will maintain an e-record for each of his/her wards. The e-record will contain all information concerning the students' attendance, marks obtained in the university examinations, monthly tests, achievements if any in curricular, co-curricular and extra-curricular activities, and disciplinary proceedings if any taken against the student. Student counselling plays a vital role in a student's life. Hence the students are advised to meet their tutor frequently and discuss their problems freely. They should ensure that all the information concerning their progress and achievements in the college is duly entered in the record book.

Representations

Any representation to the Principal should always be routed through the tutor and Head of the Department.

Important rules to be followed by the students while attending Laboratories and Workshops

Students should be extremely careful in handling the equipment while working in laboratories. They should take at most precautions to avoid injuries. Students should be very careful while doing experiments to avoid breakages or damages. Wearing shoes and properly fitting attire aid to prevent injury. Damages to equipment, causing loss to the college, may deprive the students of the opportunity to make further use of them. Any such damages caused to equipment should be immediately brought to the notice of the staff in-charge of the laboratory, and the cost of damage should be borne by the student. Special instructions given by the staff in-charge of laboratories should scrupulously be followed.

Special Instruction

Students shall not enter the College in an inebriated condition failing which will result in the dismissal of the student from the College as per Anna University Rule.

ACADEMIC RELATED COMMITTEES

CONTROLLER OF EXAMINATIONS (COE)

COE	Dr.D.Manimegalai	Professor/CSE
ADDITIONAL COE	Dr.K.Mohaideen Pitchai	Professor/CSE
DEPUTY COE	Mr.D.Vijayakumar	AP(SG)/CSE
MEMBERS	Dr.I.Vivek Anand	Asso.Prof/ECE
	Mr.A.Shenbagharaman	AP(SG)/AI&DS

INSTITUTIONAL AND FACULTY AFFAIRS(I&FA)& RESEARCH AND DEVELOPMENT

SR.DEAN(I&FA)& R&D	Dr.M.A.Neelakantan	HOD/S&H
COORDINATOR	Dr.J.Naskath	Asso.Prof/ AI&DS
MEMBER	Mr.A.Andrews	Asso.Prof/MECH

TRAINING & PLACEMENT CENTRE(TPC)

CONVENER	Dr. V. Manimaran	Associate Professor /IT
COORDINATORS	Dr. D Vigneshkumar	Associate Professor /MECH
	Mr. M. Sathishkumar	AP(SG)/ECE
MEMBERS	Dr.P.Ramanan	Asso.Prof/MECH
	Dr.B.Shunmuga Priya	Asso.Prof/CSE
	Dr.S.Rajagopal	Asso.Prof/IT
	Dr.M.Gengaraj	Asso.Prof/EEE
	Mr.V.Arulpandian	AP(SG)/CIVIL
	Ms.P.Arishenbagam	AP/ECE
	Dr.V.Veera Anusuya	AP(SG)/AI&DS
	Ms.B.Revathe	AP/S&H
	Mr.K.Ramamoorthy	Assistant
	Mr.K.V.Gopikrishnan	Attender

ACADEMIC AFFAIRS & FACULTY DEVELOPMENT

DEAN	Dr.A.Shenbagavalli	Professor/ECE
MEMBERS	Dr.F.Michael Thomas Rex,	Professor/MECH
	Dr.C.Chella Gifta	Professor/Civil
	Dr.K.J.Prasanna Venkatesan	Asso. Prof./ECE
	Dr.S.Geetha	Asso. Prof./S&H
	Dr.S.Sankara Kumar	Asso.Prof /EEE
	Ms.R.Vazhan Arul Santhiya	AP/CSE
	Mr.R.Jeyaseelan	AP/AI&DS

DISCIPLINE COMMITTEE

Dr.K.Kalidasa Murugavel	PRINCIPAL
Dr.S.Tamilselvi	HOD/ECE
Dr.M.Willjuice Iruthayarajan	HOD/EEE
Dr.S.Iyahraja	HOD/MECH
Dr.M.A.Neelakantan	HOD/S&H
Dr.S.Dheenathayalan	Asso.Warden/Gents Hostel
Ms.M.Balamaheswari	Asso.Warden/Ladies Hostel

INTERNAL QUALITY ASSURANCE CELL (IQAC)

HEAD	Dr.L Kalaivani	Prof/EEE
COORDINATOR	Dr.R. Harichandran	Prof/MECH
MEMBERS	Dr.S Chidambaram	Professor/IT
	Dr.J.Ida Christy	AP(SG)/CSE
	Mr.S.Cammillus	AP(SG)/ECE
	Mr.K.Kumar	AP(SG)/EEE
	Dr.M.Aravind	AP(SG)/S&H
	Dr.S.M.Leela Bharathi	AP/CIVIL
	Ms.M.Saranya	AP/AI&DS

TIME TABLE(THEORY & PRACTICAL)		
CONVENER	Dr R Manjula Devi	AP(SG)/ECE
MEMBERS	Mrs.M Manimegalai	AP(SG)/IT
	Dr.M.C.Eniyan	AP/MECH
	Ms. M. Balamaheswari	AP(SG)/CIVIL
	Mr.P.Samuel Pakianathan	AP(SG)/EEE
	Ms.S Muguntha Mala	AP/ECE
	Ms.M.Kanthimathi	AP(SG)/CSE
	Dr.B.Rajkumar	AP/S&H
	Ms.K.Poorani	AP/AI&DS
PARENTS TEACHERS ASSOCIATION		
CONVENER	Dr.E.Ramachandran	Asso. Prof./S&H
MEMBER	Ms.C.K.Balasundari	AP(SG)/ECE
ALUMNI ASSOCIATION		
COORDINATOR	Dr.K.G.Srinivasagan	Prof./IT & Dean(IR) & AA
ASSOCIATE COORDINATORS	Dr.D.Vigneshkumar	Asso. Prof./MECH
	Dr.S.Sankarakumar	Asso. Prof./EEE
MEMBERS	Ms.P.Sugunadevi	System Programmer
	Mr.S.Palraj	Alumni System Admin
INDUSTRIAL RELATIONS		
CONVENER	Dr.K.G.Srinivasagan	Prof&Head/IT
MEMBERS	Dr.I.Padmanaban	Prof&Head/CIVIL
	Dr.V.Suresh	Asso.Prof/ECE
	Mr.K.Karthik Kumar	AP(SG)/EEE
	Mr.S.Gangadhara T Venkadesh	Instructor

INSTITUTIONAL PARTNERSHIP AND BRANDING

DEAN	Dr.B.Paramasivan	Professor/CSE
MEMBERS	Dr.R.V.Maheswari	Prof./EEE
	Dr.K.Thoufiq Mohammed	Asso.Prof/MECH
	Dr.K.Karunai Raghavan	Librarian
	Ms.K.Amsaveni	AP(SG)/CSE
	Ms.S.Mugunthamala	AP/ECE
	Ms.J.Beno Ranjana	AP/IT

INSTITUTION AND LEARNING MANAGEMENT SYSTEM (I&LMS)

CONVENER	Dr.D.Venkat Kumar	Prof/MECH
COORDINATOR	Dr.S.Kalaiselvi	Prof./CSE
MEMBERS	Ms.S.Santhi	AP(SG)/IT
	Mr.G.Ganapathy	AE(Systems)/Maintenance
	Mr.B.Gurumoorthy	Software Developer
	Ms.S.Kabila	Software Developer

KR INNOVATION CENTER& INSTITUTION INNOVATION COUNCIL -BUSINESS INCUBATOR CELL

CHIEF EXECUTIVE OFFICER	Dr.G.Vinoth	
SPOC Coordinator	Dr.M.Kathiresan	Prof./Mech
SPOC Co-Coordinator	Dr.T.Sakthi	AP (SG)/Hum
SPOC for ECE	Mr.T.Devakumar	AP(SG)/ ECE
SPOC for Mech	Dr.A.Andrews	Asso. Prof./Mech
SPOC for EEE	Dr.B.Venkatasamy	AP(SG)/EEE
SPOC for AI&DS	Dr.J.Naskath	Asso.Prof./AI&DS
SPOC for Civil	Mr.V.Krishna Sankar	AP/Civil
SPOC for CSE	Ms.K.Amsaveni	AP(SG)/CSE
SPOC for IT	Ms.M.Manimegalai	AP(SG)/IT

NEWGEN IEDC, INNOVERSE & IPR CELL		
CHIEF COORDINATOR	Dr.I.Sankar	Asso. Prof./MECH
MEMBERS	Mr.M.Sivapalanirajan	AP (SG)/EEE
	Ms.S.Sulochana	AP (SG)/ECE
	Mr.J.Karthikeyan	AP(SG)/CSE
	Mr.T. Sivabalan	AP/S&H
	Ms.N.Subhashini	AP/AI&DS
	Ms.M.Rajeswari	AP/MECH
	Dr.S.Lakshmi Narayanan	AP/CIVIL
MISTRAL - CENTRE OF EXCELLENCE (COE)		
CHIEF COORDINATOR	Dr.V.Suresh	Professor/ECE
MEMBERS	Dr.C.Balamurugan	Asso. Prof./ECE
	Dr.A.Andrews	Asso. Prof./MECH
	Ms.D.Thamarai Selvi	AP(SG)/CSE
	Mrs.M.Manimegalai	AP(SG)/IT
	Dr.K.Karthikkumar	AP(SG)/EEE
	Dr.V.Veera Anusya	AP(SG)/AI&DS
SDG INITIATIVES & SUSTAINABILITY		
COORDINATOR	Dr.V.Kannan	Professor/Civil
MEMBERS	Dr.G.Sivakamasundari	Asso.Prof/CSE
	Dr.F.X.Edwin Deepak	AP(SG)/EEE
	Mr.N.Muthu Saravanan	AP(SG)/MECH
	Ms.K.Bavithra	AP/CIVIL
ACADEMIC BANK OF CREDITS (ABC)		
CONVENER	Dr.B.Tharmalingam	AP/S&H
MEMBER	Mrs. S. Renuka Devi	Lab.Tech/S&H

DEPARTMENT ASSOCIATIONS

MECHANICAL ASSOCIATION	SOCIETY OF MANUFACTURING ENGINEERING (SME)
	SOCIETY OF AUTOMOTIVE OF ENGINEERS STUDENTS CHAPTER
	INDIAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS (ISHARE) STUDENTS CHAPTER
	ROBOTICS & AUTONOMOUS VEHICLE
CSE ASSOCIATION	CISCO NETWORKING ACADEMY
	LINUX DOMAIN
	IT CLUB
	BLOCK CHAIN CHAPTER
ECE ASSOCIATION	ELECTRONICS CLUB
EEE ASSOCIATION	SMART PROTECTION AND CONTROL CLUB
CIVIL ASSOCIATION	STANDARDS CLUB DETAILS(SC-10947)
AI&DS ASSOCIATION	AI CLUB
S&H ASSOCIATION	QUIZ-CLUB
	SCIENCE-CLUB
	MATHS CLUB

PROFESSIONAL SOCIETIES

ISTE STUDENTS CHAPTER & STAFF CHAPTER

CONVENER	Dr.S.Lavanya	AP/ECE
MEMBER	Ms.R.Madhubala	AP/ AI&DS

IEEE STUDENT BRANCH

CONVENER	Dr.T.S.Arun Samuel	Professor/ECE
MEMBER	Ms.R.Vazhan Arul Santhiya	AP/CSE

COMPUTER SOCIETY OF INDIA (STUDENTS' BRANCH)

CONVENER	Dr.B.Shunmuga Priya	Asso.Prof/CSE
MEMBER	Ms.M.Malathi	AP/IT

INSTITUTION OF ENGINEERS (I) STUDENTS AND STAFF CHAPTER

CONVENER	Dr.M.C.Eniyan	AP/MECH
MEMBER	Ms.T.Rajeswari	AP/CSE

ALUMNI COUNCIL

COORDINATOR	Dr.V.Anitha	AP(SG)/IT
ALUMNI CLUBS	1. Auto Club	2. Entrepreneur Club
	3. Electronics Club	4. AI Club
MEMBERS	Dr.P.Samuel Pakianathan	AP(SG)/EEE
	Ms.M. Kanthimathi	AP/CSE
	Ms.M.Rajeswari	AP/MECH
	Ms.P.Rampriya	AP/AI&DS
	Mr.P.Satheesh Kumar	AP/CIVIL
	Ms.E.Kirthiga @ Sridevi	AP/ECE

HIGHER STUDIES		
CONVENER	Dr.B.Vigneshwaran	Asso.Prof/EEE
MEMBERS	Ms.C.Kalieswari	AP(SG)/ECE
	Mr.S.Kannan	AP(SG)/CIVIL
	Ms.A.Lincy	AP/CSE
	Ms.M.Rajeswari	AP/MECH
	Mr.P.Ganapathy	AP/S&H
	Ms.S.Kavitha	AP/IT

EXTRA CURRICULAR ACTIVITIES

STUDENT EXTENSION ACTIVITIES		
CONVENER	Dr.K.Subramanian	AP(SG)/ECE
MEMBERS	M.K.Rajkumar	AP(SG)/ECE
	Dr.C.Veera Ajay	AP(SG)/MECH

NATIONAL CADET CORPS (NCC) (TO INCLUDES ANTI DRUG CLUB)

Coy No. : 2/9(TN) Sig.Coy.NCC, Sanctioned Strength: 100 Cadets

Coy Commander	Dr. S Rajagopal	Asso.Prof/IT
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NATIONAL SERVICE SCHEME (NSS) (INCLUDES BLOOD DONATION CLUB AND RED RIBBON CLUB)

Programme Officer (Unit I)	Dr.C. Balamurugan	Asso.Professor/ECE
Programme Officer (Unit II)	Dr.K.Latha	AP/S&H

ROTARACT CLUB

CONVENER	Dr. A. Panimaya Valan Rakkini	AP(SG)/S&H
MEMBERS	Ms.C.Dhanalakshmi	AP/EEE

LITERARY CLUB

COORDINATOR	Ms. S Jeba	Soft Skill Trainer
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READERS PARK

CONVENER	Dr.K Karunai Raghavan	Librarian
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FINE ARTS CLUB (INCLUDES YOUTH WELFARE ASSOCIATION AND YOGA CLUB)

CONVENER	Dr.R Rajakumari	Asso.Prof/CSE
	Dr.M.Prabhu	AP(SG)/S&H
MEMBERS	Mr.N.Muthu Saravanan	AP(SG)/MECH
	Dr.R.Vanalakshmi	AP/S&H (Youth welfare association)
	Ms.N.Pathmavathi	AP/ECE (Yoga Club)
	Ms.P.Raja Priya	AP/CIVIL
	Ms.P.Swarna Gowsalya	AP/AI&DS
	Ms.S.Kavitha	AP/IT

SOCIAL MEDIA

COORDINATOR	Dr.E.Ramachandran	AP (SG)/S&H
MEMBERS	Mr.R.Krishnamoorthy	Designer
	Mr.S.Ponmariappan	Technician

ECO CLUB

CONVENER	Mr.N.Radhakrishnan	AP/CIVIL
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MANDATORY COMMITTEES**ANTI-RAGGING COMMITTEE**

CHAIRMAN	Dr.K.Kalidasa Murugavel	PRINCIPAL
MEMBERS	Dr.S.Iyahraja	HOD/MECH
	Dr.S.Thalamuthu	Asso.Prof/S&H
	Dr. S. Chithiraikumar	AP (SG)/S&H - (Asso.Warden/Hostel)
	Ms. M. Balamaheswari	AP/CIVIL - (Asso.Warden/Hostel)

INTERNAL COMPLAINTS COMMITTEE (ICC)

CONVENER	Dr. V Gomathi	Professor & Head/CSE
MEMBERS	Dr.S.Dheenathayalan	Asso.Prof/CSE- Warden/Gents Hostel
	Dr.S.Geetha	Asso.Prof/S&H -Warden/Ladies Hostel
	Ms.S.Bairavi	Department Assistant/ECE
	Mr.S.Palraj	Alumni System Admin
	Ms.I.Muthu Selvi	Student/Research Scholar
	Mrs.R.Lalithambigai	Official-NGO

STAFF GRIEVANCE REDRESSAL COMMITTEE (SGRC)

CHAIR PERSON	Dr. K.Kalidasa Murugavel	Principal
MEMBERS	Dr.G.S.R. Emil Selvan	Asso.Prof/CSE, TCE, Madurai
	Dr.M.A.Neelakantan	Sr.Dean(I&FA)& R&D
	Dr.M.Willjuice Iruthayarajan	Prof & Head /EEE
	Dr.V.Gomathi	Prof & Head /CSE

STUDENT GRIEVANCE REDRESSAL COMMITTEE (SGRC)

CONVENOR	Dr.K.Kalidasa Murugavel	PRINCIPAL
MEMBERS	Dr.L.Kalaivani	Head-Spqac and Professor/EEE
	Dr.R.Muthukkumar	Prof&Head/IT
	Dr.T.S.Arun Samuel	Professor /ECE
	Dr.B.Annaraj	Asso.Prof/S&H
	Mr.A.Shenbagaraman	AP(SG)/AI&DS

MINORITY CELL

CONVENOR	Mr.F.Antony Jeffrey vaz	AP(SG)/EEE
MEMBER	Ms.S.Jeba	Soft Skill Trainer

PREVENTION OF SEXUAL HARASSMENT (POSH) CELL

CHAIR PERSON	Dr.V.Kalaivani	Prof&Head/AI&DS
SECRETARY	Ms.N.Gowthami	AP(SG)/IT
MEMBERS	Ms.D.Thamarai Selvi	AP(SG)/CSE
	Ms.S.Basitha Parveen	AP(SG)/S&H
	Ms.S.Jenet	AP/ECE
	Mr.S.V.Sampath Kumar	B.Com L.L.B/ Advocate

GENDER EQUITY CELL

CHAIR PERSON	Dr.K.Kalidasa Murugavel	Principal
CONVENER	Dr.J.Naskath	Asso.Prof/AI&DS
MEMBERS	Ms.V.Srirenga Nachiyar	AP/ECE
	Ms.S.Renganayaki	AP/AI&DS
	Ms.M.Vaijyanthimala	AP/CSE

SC/ST COMMITTEE

CHAIR PERSON	Dr.K.Kalidasa Murugavel	Principal
CONVENER	Dr.F.Michael Thomas Rex	Prof/MECH
MEMBER	Ms.S.Mugunthamala	AP/ECE

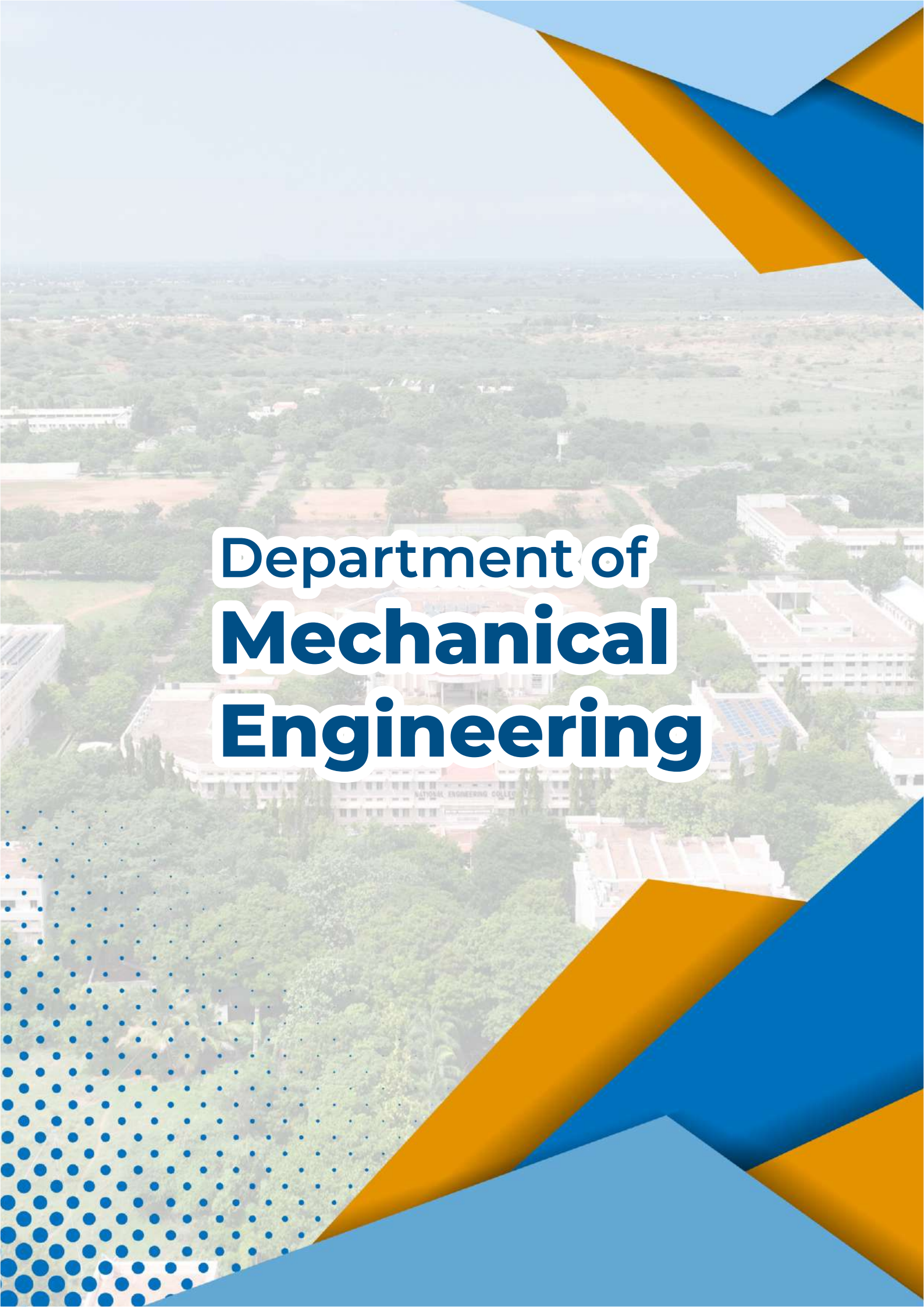
OBC CELL

CONVENER	Dr.B.Prince Abraham	AP(SG)/MECH
MEMBERS	Ms.V.Maheswari	AP/CSE
	Ms.B.Siraj Dhowbika	AP/ECE

BULLETIN

CONVENER	Ms.S.Gopiga Devi	AP/S&H
MEMBER	Mr.R.Krishnamoorthy	Designer

CANTEEN & CAFETERIA		
COORDINATORS	Dr.M.Annapoopathi	AP(SG)/S&H
	Mr.P.Jeevanandam	Admin Manager
GENTS HOSTEL		
ASSOCIATE WARDEN	Dr.S.Chithirai Kumar	AP(SG)/S&H
	Dr.S.Dheenathayalan	Asso.Prof/CSE
Manager	Mr.M.Mohamed Galeel	Mobile No: 7810029767
RESIDENTAL WARDENS		
Mr R.Marichamy	Mobile No: 73958 54951	
Mr S.Karthikeyan	Mobile No: 91165 63571	
LADIES HOSTEL		
ASSOCIATE WARDEN	Dr.S. Geetha	Asso.Prof/S&H
	Ms M. Balamaheswari	AP(SG)/CIVIL
RESIDENTAL WARDENS		
Ms.N. Jayalakshmi	-	Mobile Number: 6382278083
TRANSPORT		
ASST. TRANSPORT MANAGER	Mr.R.Kirubakaran (Mobile No: 9150117274)	
GOVERNMENT EXAMINATIONS		
MEMBERS	Dr. K.J.Prasanna Venkatesan	Associate Professor/ECE
	Dr.B.Annaraj	Associate Professor/S&H
	Mr.K.Kumar	AP /EEE
PRESS		
CONVENER	Dr.K Karunai Raghavan	Librarian
MEMBERS	Mr A Arumugam	Machinst/MECH
Library Staff Members and Office Assistants of all departments		



Department of **Mechanical Engineering**

Mechanical Engineering

The Department of Mechanical Engineering came into being from the inception of the institution in the year 1984. The Department's vision and mission is to produce well qualified Mechanical Engineers every year.

VISION

- ▶ Producing globally competitive Mechanical Engineers with social responsibilities.

MISSION

- ▶ Imparting quality education by providing an excellent Teaching-Learning environment.
- ▶ Inculcating qualities of continuous learning, professionalism, team spirit, communication skills and leadership with social responsibilities.
- ▶ Promoting leading-edge research and development through collaboration with academia and industry.

Features of the Department

- ▶ B.E. – Mechanical Engineering is accredited by the National Board of Accreditation (NBA), New Delhi, for the fourth time from since 2000.
- ▶ Accredited by the Institution of Engineers (IE).
- ▶ AICTE Approved intake is 60 students per year for B.E. Mechanical Engineering.
- ▶ Supported by 19 qualified, and dedicated faculties, among them 16 faculties hold a doctoral degree. The department has engaged 2 adjunct faculties with more than 20 years of industrial experience to give industrial exposure to the students.
- ▶ Anna University, Chennai, recognized the Department as the Research Centre for the Ph.D. Programme.
- ▶ Two research scholars are pursuing their PhD in the department with cutting-edge technologies.
- ▶ A Memorandum of Understanding (MoU) has been signed with TryCAE Industrial Engineering Pvt. Ltd., Tiruchy, for consultancy and project work.
- ▶ Student chapter from the Society of Automotive Engineers- SAE INDIA, ISHRAE, Mechanical Engineering Association is functioning well.
- ▶ The Head Quarters of Society for Manufacturing Engineers (SME), a National-level technical research Journal Entitled "Journal of Manufacturing Engineers (JME)" is promptly released once every 3 months by SME.
- ▶ Seven funded research projects sponsored by BRNS, DST & AICTE have been completed.
- ▶ GATE coaching and Campus placement and training facilities are available.
- ▶ Campus requirement opportunities from Renault Nissan, Axis cades Technologies, Zoho, Gulf Asia Engineering, Caterpillar India Pvt Ltd, Chennai, Delta India, Data Patterns, SPIC, Flender, Dhvani Research and Development Solutions, Schwing

Stetter India Pvt Ltd, Janatics India Pvt Ltd , Sinmec Engineering Services (India) Pvt. Ltd, VA TECH WABAG, Chennai, Emerson Ltd, Chennai, Brakes India Pvt Ltd , Chennai, Tuticorin Alkali Chemicals & Fertilizers Ltd, Britannia Industries Ltd, Gangaikondan, Bosch Chennai, Myunghwa Automotive India Pvt Ltd, Trans energy Pvy Ltd Chennai, Avalon Technologies Limited Chennai, Maxwell Technologies Pvt Ltd, Mumbai, etc.

- ▶ A well-planned curriculum consisting of core & elective courses with the collaboration of industry for a better understanding of advanced, higher-level topics.
- ▶ Mechanical Engineering organizes technical seminars, and frequent industrial visits, for students, etc.
- ▶ Many international and national research papers in various fields, such as production, manufacturing, design, energy engineering, thermal engineering, robotics, composite materials, applications of intelligent optimization techniques and management, etc., are published annually.
- ▶ A Business Incubator for innovation and application of technology in small-scale business.
- ▶ CDIO, NDT, and R & D Laboratory have been constructed for new product development and research.
- ▶ Students are engaged in innovative research work for new product development.
- ▶ The department has developed 85 new Products and filed 31 patents, 5 design registrations and 16 product patents have been granted.

Centre for Energy Studies & Centre for Manufacturing Sciences

The Centre for Energy Studies and Manufacturing Sciences was established in 2009. The centre is striving to establish collaborative research with R&D institutions in the fields of Energy & Manufacturing Engineering.

Laboratories

The department has well-furnished conventional classrooms, well-equipped online teaching facilities, elective halls, a Smart classroom and seminar hall (250- seat capacity), and fully equipped laboratories and workshops. Further, some special equipment is also available to carryout research activity in the laboratories. The details of the workshops and laboratories with equipment are listed below.

Machine Shop

Gee-dee Weiler Lathes, Gear Hobbing Machines, Milling Machines, Planer and Surface Grinding, Capstan and Automatic Lathes, Variable Speed Metal Cutting Band Saw, Tool & Cutter Grinder and Injection Moulding Machine.

Workshop

Carpentry, Smithy, Foundry and Welding Sections with all infrastructure facilities.

Instrumentation and Metrology Laboratory

Autocollimator, Surface Roughness Tester, Carriage Diameter Measuring Machine, Gear Rolling Tester. Profile Projector, Temperature, Force, Displacement, Vibration / Shock and Torque Measuring Setups. Olympus - Optical Microscope (OM) with Motic Image Plus2 image analyzing software.

Dynamics Laboratory

CAM Analyzer, Whirling of shaft apparatus, Vibration tester and Vibration Analyzer setup, Gyroscopic setup, Governors experimental setup and Digital Storage Oscilloscope (DSO) with FFT.

Hydraulics Laboratory

Flow measurement devices and fluid machines like Francis, Kaplan, Pelton Wheel Turbines, and different types of pumps, Friction in pipe apparatus, Flow through notches and Reynolds Apparatus.

Automation / Mechatronics Laboratory

Hydraulic, Pneumatic and Electro-Pneumatic trainer kits. Automation Studio 5.3 software, Servo controller for Closed/Open-loop control system, i5 Intel 4th generation processor desktop computers with 17-inch LED monitors.

Materials Testing Laboratory

Computerized 60-ton UTM test setup, 200-ton Analog UTM setup, 200-ton compression testing machine, Digital Vickers hardness tester, Torsion testing machine. Diffusion bonding setup with a vacuum chamber, Fatigue test setup, Impact Test Setup, Crashworthiness Test Setup.

Metallurgy Laboratory

Metallurgical Microscope, Muffle Furnace and facilities for specimen preparation.

CAD Laboratory

High-end servers with 6-core processors, workstations, and i7 processors. PCs with intranet and internet connectivity, A0 size plotters, printers, and scanners. Licensed software like CATIA V5R10, ANSYS 17.0, SolidWorks, AutoCAD, NISA, and MathCAD with its recent updates.

Digital Fabrication Lab

The Digital fabrication laboratory is established in our Mechanical Engineering Department. Currently, this laboratory is equipped with an imported VMC machine from DMG MORI, Germany & CNC machine of Sprint 16 TCLX, MTAB FMS Setup comprising of CNC lathe- XLTURN, CNC milling - STARMILL and integrated with Robot system, Coordinate Measuring Machine (CMM), RCS 6 Robot trainer kit, MTAB Articulated FANUC Robot and its linear slider with raw material chute, desktop computers with latest i5 Intel processor and 17-inch LED monitors. Licensed software MTAB- CNC STARMILL and XLTURN, ESPRIT and SOLIDCAM. Equipment such as a 3D printer, Coordinate Measuring Machine and Pick and Place Robot are also available in this laboratory. The main objective of establishing this laboratory is to provide more hands-on training to the students with the latest CNC cutting-edge technology apart

from the regular curriculum. Hence, students are trained on actual industrial production machines within the campus. The hands-on training would increase students' skill and make them industry-ready engineers, and they would have better placement opportunities in mechanical and allied industries.

Advanced Engineering Materials Laboratory:

Creep Testing machine, Universal Tensile Tester machine, Hydraulic Compression moulding machine, Muffle furnace, Tribometer, Probe sonicator and Impact testing machine, Thermogravimetric Analyzer, 3D TubuleMixer

IC Engines Heat Transfer & Steam Laboratory:

Test rigs and testing equipment related to major thermal engineering processes including, Cooling Tower, Condensation apparatus.

Energy Simulation Laboratory

Solar simulator facilitates performance study of different PV systems, battery charging and discharging characteristics, performance analysis of the different solar thermal equipment like collectors, water/air heaters, solar dryer, still and TRNSYS software package.

Quality Control Laboratory

Full-fledged conventional Non-Destructive Testing laboratory with Ultrasonic Testing Machine, Radiographic Film Viewer, Magnetic Particle Testing Machine.

Advanced Welding Laboratory

The laboratory is equipped with Pulsed Tungsten Inert Gas (TIG) welding machines and Metal Inert Gas (MIG) welding machines to facilitate the laboratory, worth Rs.5 lakhs to facilitate research in this area.

Research Area

Faculty members are carrying out research work in the following field and have published it in peer-reviewed international Journals.

- Optimization Techniques
- Welding
- Metal Forming
- Design and analysis of large-diameter slewing ring bearings
- Heat Exchangers
- Non-destructive analysis
- Vibration analysis and controlling

- Natural composites
- Fibre-Metal Laminates
- Solar Thermal and Photo-voltaic systems
- Thermal Energy Storage
- Pressurized imperfect tori-spherical thin shells
- Diffusion Bonding of Dissimilar Metals
- Friction Stir Welding (FSW)
- Powder Metallurgy
- Scheduling and Allocations
- Nanomaterials
- Heat Transfer Enhancement

Notable achievements of the Department

- ▶ Carried out 7 projects worth more than Rs. 1.4 crores by 7 BRNS, AICTE, DST and one project from DST-SERB.
- ▶ Strong in product development: developed 8 new products for commercialization, including 3 product/ process development projects funded by MSME.
- ▶ A total of 31 patents have been filed by the department, of which 5 design patents and 16 product patents were granted.
- ▶ Excellent research facilities for the development and characterization of new materials for various applications.
- ▶ The department is progressing towards 100% placement by providing consistent skill-based training.

Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE) Students Chapter

ISHRAE Students Chapter encourages students to opt for careers in the HVAC&R industry. Knowledge dissemination is done through seminars, quiz contests, plant and site visits, and by providing a platform for leading employers to recruit candidates who are members of ISHRAE student chapters. ISHRAE promotes research in the field of HVAC & R technology. It offers financial support to Graduate/postgraduate students and research scholars to carry out innovative work on R&D in Technology, Systems, and Processes. Through this chapter, students can avail themselves of various benefits like easy access to all ISHRAE Technical Publications, International exposure through International Associates, Workshops, Conferences, Training Programs, Placement activities, financial support for project work etc.

Society for Manufacturing Engineers (SME)

The Society for Manufacturing Engineers (SME) is a professional body that offers engineers, scientists, manufacturers and students an opportunity to disseminate technical concepts and knowledge by becoming a member and joining together as a community to explore recent developments in the manufacturing field. Journal of Manufacturing Engineering (JME) is an outcome of efforts made by the Society for Manufacturing Engineers, a forum shared by Academia, R & D institutions and industry. The journal aims at integrating the advances that are taking place in these diverse sectors. The scope includes all aspects of Science, Technology and Engineering relevant to Manufacturing. JME has nearly 200 subscribers from all over India. JME has published 16 volumes so far with quarterly issues.

Society Of Automotive Engineers – Student Chapter

"SAE INDIA National Engineering College Collegiate Club" was initiated in 2008 and is presently functioning with 105 student members. The objective is to enhance students' knowledge of recent developments in the automotive sector. Many programmes and expert lectures by eminent persons are organized by the club. The student members use the regularly updated SAE website, including free access to magazines, to enhance their knowledge. The SAE programs aim to showcase the talents of student members. The interests shown by students is overwhelming to take part in the club.

Auto Club

An exclusive Auto club for students studying mechanical engineering and other engineering disciplines was been established in 2024 with the integration of NEC Alumni Association. The real enthusiasts for automobiles can exchange stories, gain knowledge from one another, and engage in exciting exploration of the world of cars and automation.

Why Join Auto Club?

Community of Enthusiasts

Connect with fellow Automobile enthusiasts who share the passion. Exchange tips, stories, and experiences that only true enthusiasts can appreciate.

Exciting Events

The club organizes a variety of events that cater specifically to college students. Explore new destinations, learn essential maintenance skills, and make memories with friends who share interest.

Educational Opportunities

Access to workshops and guest lecturers on topics like Automotive maintenance, car care tips for students, navigating the automotive industry as a young enthusiast, and more. Learn valuable skills that will serve well beyond college.

Networking and Career Development

Conduct club events and create networking opportunities to establish connections with individuals in the automotive sector. Learn about job openings, internships, and career paths in the automotive industry.

Expertise and Resources

Professionals in the automotive sector and seasoned NEC Alumni Association members can provide a plethora of expertise. The club is a go-to place to talk about the newest trends.

Support and Camaraderie

A supportive community where members help each other with technical issues, and recommendations. Membership is open to all college students who have a passion automobiles and a desire to explore the automotive world with fellow enthusiasts.

Faculty List

Teaching		
Name of the Faculty	Qualification	Designation
Dr.S.Iyahraja	M.Tech. Ph.D.,	Professor & Head
Dr.K.Manisekar	M.E., Ph.D.,	Visiting Professor
Dr.D.Venkatkumar	M.E., Ph.D.,	Professor
Dr.R.Harichandran	M.E., Ph.D.,	Professor
Dr.M.Kathiresan	M.E., Ph.D.,	Professor
Dr.F.Michel Thomas Rex	M.E. Ph.D.,	Professor
Dr.P.Ramanan	M.E. Ph.D.,	Associate Professor

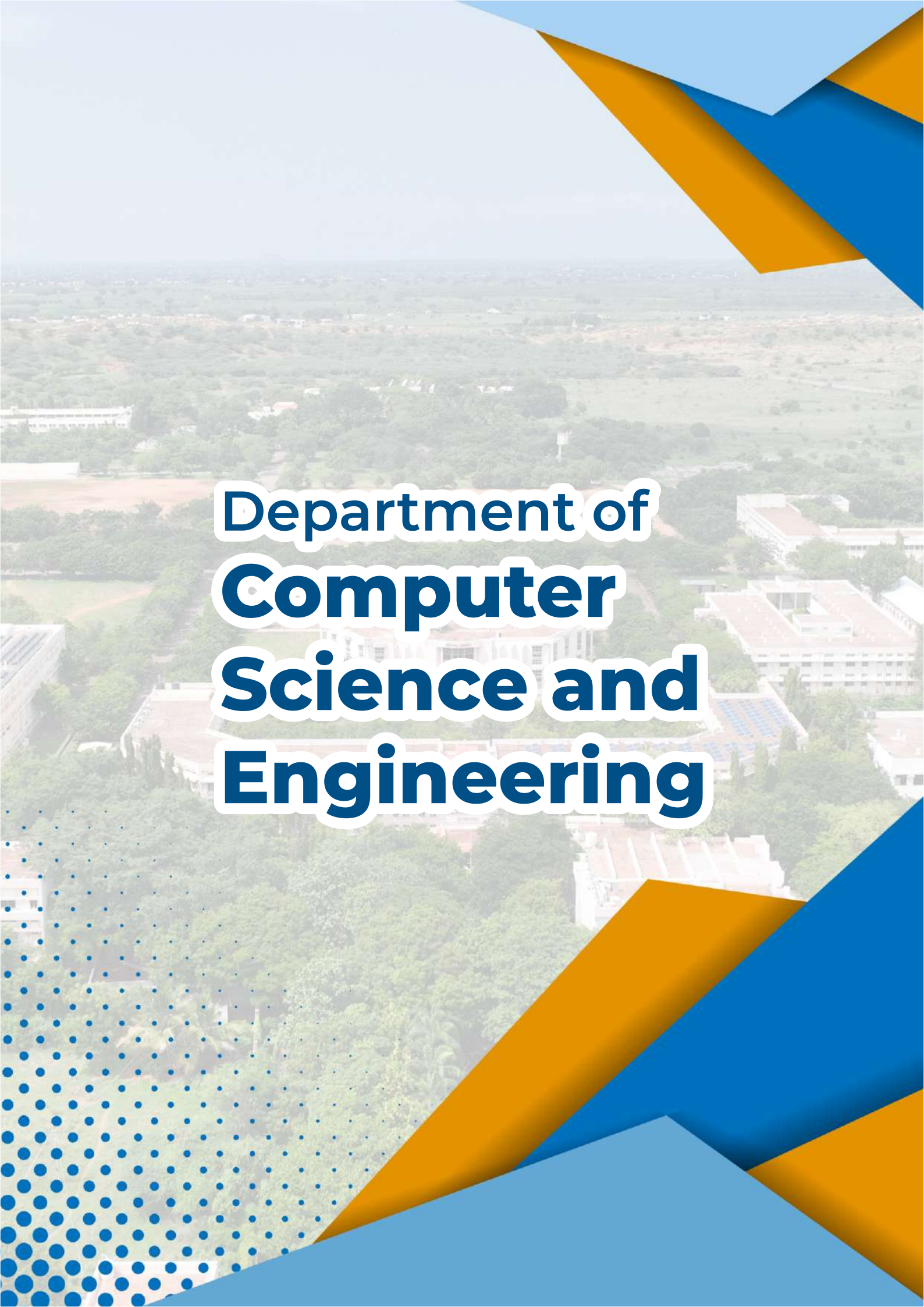
Dr.I.Sankar	M.E. Ph.D.,	Associate Professor
Dr.D.Vignesh Kumar	M.E. Ph.D.,	Associate Professor
Dr.A.Andrews	M.E. Ph.D.,	Associate Professor
Dr.K.Thoufiq Mohamed	M.E., Ph.D.,	Associate Professor
Dr.C.Veera Ajay	M.E., Ph.D.,	Assistant Professor(SG)
Dr.B.Prince Abraham	M.E., Ph.D.,	Assistant Professor (SG)
Mr.N.Muthu Saravanan	M.E.,	Assistant Professor (SG)
Ms.M.Rajeswari	M.E.,	Assistant Professor
Dr.M.C.Eniyan	M.E., Ph.D.,	Assistant Professor
Dr.Vivekanandan.M	M.E., Ph.D.,	Professor of Practice
Mr.Ananthan.S.S	B.E., M.Sc., (Engg.)	Professor of Practice

Humanities

Dr.T.Sakthi	M.Com., M.Phil., Ph.D.,	Assistant Professor(SG)
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Non-Teaching

Name of the Faculty	Qualification	Designation
Mr.S.Balasubramani	ITI	Welder
Mr.A.Arumugam	ITI	Machinist
Mr.C.Rathakrishnan	ITI	Turner
Mr.A.Marimuthu	ITI	Plumber
Mr.M.Ponmadasamy	ITI	Black Smith
Mr.S.Tamilselvan	ITI	Moulder
Mr.M.Manikandan	ITI	Fitter
Mr.R.Sathishkumar Raja	DME	Lab. Technician
Mr.R.Muneewaran	DAE	Lab. Technician
Mr.R.Jayaraman	ITI	Welder
Mr.J.Kandasamy	MCA	Assistant Programmer
Ms.S.Sankaralakshmi	M.Com	Department Assistant



Department of **Computer Science and Engineering**

Computer Science and Engineering

Computer Science and Engineering department was established in 1984 to create socially responsible and competent computer professionals and young researchers. It aligns with the vision and mission of the institution in imparting high quality education to the students. The department strives to be among the most preferred programs by integrating a comprehensive curriculum and promoting self-learning practices.

VISION

- ▶ To produce globally competent, innovative and socially responsible computing professionals

MISSION

- ▶ To provide world-class teaching –learning and research facilities
- ▶ To stimulate students' logical thinking, creativity and communication skills effectively.
- ▶ To cultivate awareness about emerging trends through self-initiative
- ▶ To instill a sense of societal and ethical responsibilities.
- ▶ To collaborate with industries and government organizations.

Program Educational Objectives (PEOs)

- PEO 1: Achieve their professional career in industry/academia by applying the acquired knowledge of computer science and engineering.
- PEO 2: Engage in life-long learning and enhance their capabilities by embracing cutting edge technical advancements.
- PEO 3: Excel in collaboration with interdisciplinary teams and diverse stake holders for persevering successful start-ups.

Program Specific Outcomes (PSOs)

- PSO1: Build domain specific expertise by showcasing deliverables in the field of Application development, Business Intelligence, Computational Intelligence and Cyber Security
- PSO2: Build knowledge base for students to solve complex technical problems through participation in global contests and hackathons.

Features of the Department

- ▶ AICTE-approved intake is 120 students per year for B.E. CSE and 12 students for M.E. CSE.
- ▶ Recognized Research Centre by Anna University, Chennai to offer Ph.D. and M.S. (By Research) degrees, with scholars actively pursuing their research.
- ▶ Consistent placement record of above 90% with the highest salary package of Rs. 12.5 LPA and average salary package of Rs. 5.2 LPA, with 100+ students getting placed in reputed companies.

- ▶ Offering research-oriented higher-level settlement for PG students.
- ▶ All laboratories and classrooms are equipped with ICT facilities to enhance integrated learning.
- ▶ Supported by 7 different Computing Laboratories for students' academic activities and 3 different Research Laboratories for research activities, all equipped with high-end computer systems and servers.
- ▶ An Air-Conditioned Seminar Hall with 150-seating Capacity, equipped with fully furnished audio system, wall-mounted LCD projector, and glazed floor tile.
- ▶ 10 smart classrooms with 80-seat capacity.
- ▶ Following Outcome Based Education (OBE) and Choice Based Credit System (CBCS) with well-tuned Core Courses, Open Elective Courses, and Trans-Disciplinary Courses for flexible knowledge transition.
- ▶ GATE coaching forum for higher studies and Department-level Students Technical Training Programme (STTP) for placement.
- ▶ Offering Verticals and honors courses with specialization options for advanced learning.
- ▶ Active participation in TCS CodeVita with students achieving high ranks in the competition.
- ▶ Multiple funded research projects under NewGen IEDC are currently in process.
- ▶ Promoting design thinking, problem-based, and project-based learning experiences through engagement with the NEC innovation and entrepreneurship ecosystem.
- ▶ Computer Science and Engineering Association (CSEA) and other co-curricular chapters are actively functioning to motivate the students to develop leadership qualities, organizational skills, and effective communication skills.
- ▶ Memorandum of Understanding (MoU) signed with Adroit Soft India Pvt. Ltd., Chennai, since April 2020; M-Tutor Pvt. Ltd., Chennai; and TryCAE Industrial Engineering Pvt. Ltd., Trichy.
- ▶ Exclusive department library with a recent collection of books on different topics.

CSE department remains committed to fostering a conducive learning environment that encourages academic excellence, research innovation, industry collaboration, and holistic student development.

Focus Group

Each Focus Group is led by a Focus Group Head who stimulates discussion and exploration among group members. The staff members help students gain deep insights and specialized knowledge in their areas of interest. Our department is having 6 Focus Groups (SIG) for their respective research areas, to discuss and explore the recent advancements of their respective study.

- | | | |
|--------------------------------|---|---|
| ◆ Blockchain Technology | ◆ Computational Intelligence | ◆ Business Analytics |
| ◆ Fullstack Development | ◆ Augmented Reality/
Virtual Reality | ◆ Theoretical Computer
Science |

Academic Laboratory Facilities:

Laboratories are important educational resources for developing software professionals. The department is well equipped with 7 computer laboratories with the latest hardware and software to cater to the academic needs of the students.

Interactive Computing Laboratory: Data structures laboratory, Java Programming laboratory, Mobile Application Development Laboratory, Object Oriented Analysis and Design Laboratory, C++ and Dot Net Laboratory and Front End Web development courses are conducted in this lab.

AI & DL: This laboratory is used for Data Science, Digital Image Processing and Machine Learning related courses. It is equipped with necessary software for students' project work.

CISCO Laboratory: CISCO Certified CCNA course is supported. Apart from that, this lab supports Computer Networks Laboratory, Networks Security Laboratory, MANET/VANET Simulation Tools, Product Development laboratory and Python Courses.

Common Computer Centre: This lab is used for Computer Practice and Primary Programming Laboratory exclusively for first year courses. The first year students make use of this lab for Technology Enabled Learning, Online Courses and assessments.

Remote Monitoring Management and Information Security Laboratory: This laboratory is equipped with software to conduct Business Analytics, 3D animations, UML Designs, Mini Projects and Creative Image Manipulation courses.

Dr. A.P.J. Abdul Kalam Computer Centre: This laboratory is used for conducting Internet and Web Technology, Computer Networks Laboratory, Advanced Data Structures Laboratory, Object Oriented Programming Laboratory, Operating System Laboratory and Front End Web Development course for other department UG students.

Sir C.V. Raman Computer Centre: This laboratory is used for conducting Computer Networks Laboratory, Object oriented Programming Laboratory, Open Source Systems Laboratory, Front End Web Development and R programming courses for UG students.

In addition to these laboratories, the department has domain-specific laboratories such as the Image Processing Research Centre, Sensor Networking Laboratory, Ad Hoc Networking Laboratory and Cloud Computing Laboratory which are established through various funding agencies like AICTE, DRDO, CSI and IE(I) for research and development. These laboratories are well equipped with specialized software and computing facilities to carry out research work on various projects by the faculties and students in research related areas.

Sponsored Events Organized

- ▶ On 27 and 28 February 2026, a two-day workshop on “Turing Machines and Undecidability” was conducted by Dr. Supratik Chakraborty and Dr. S. Askay from the Indian Institute of Technology Bombay and Indian Association for Research in Computing Science.
- ▶ On 19th August 2025, Mr. J. Karthikeyan AP(SG) / CSE organized a Core Training Program on “Immersive Innovation in AR/VR for Healthcare, Industry, and Education” in Collaboration with TryCAE, Trichy.

Student Achievements

- ▶ Department has consistently attained 95.21% Placement Settlement with 12.5 LPA as Highest Salary and 5.38 LPA as Average Salary. Also, more than 50 students have got Offers above 6 LPA with maximum of 50K stipend during their final year of study.
- ▶ Achieved the TCS HackQuest (Season 10) Winners (Top-Female Ethical Hacker, 25th & 50th ranks) and acquired Placement Offers upto 10.86 LPA
- ▶ More than 25% of the students have attained Global Ranking in Competitions, Hackathons and Nation-wide top rank list in PAN India hiring Contest, Internships in IITs, IIITs. Additionally, achieved Zonal and Inter-State level Championship in Sports.

Faculty List

Teaching		
Name of the Faculty	Qualification	Designation
Dr.V.Gomathi	M.Tech. Ph.D.,	Professor & Head
Dr.B.Paramasivan	M.Tech. Ph.D.,	Professor / Dean
Dr.D.Manimegalai	M.E., Ph. D.,	Professor
Dr.K.Mohaideen Pitchai	M.E., Ph. D.,	Professor
Dr.S.Kalaiselvi	MCA., M.E. Ph.D.,	Professor
Dr.R.Rajakumari	M.E. Ph.D.,	Associate Professor
Dr.G.Sivakama Sundari	MCA., M.E. Ph.D.,	Associate Professor
Dr.B.Shunmugapriya	M.E. Ph.D.,	Associate Professor
Dr.S.Dheenathayalan	M.E. Ph.D.,	Associate Professor
Mr.D. Vijayakumar	M.S.,	Assistant Professor (SG)
Mr.K.Rajkumar	M.E.,	Assistant Professor(SG)
Ms.D.Thamarai Selvi	M.E.,	Assistant Professor(SG)

Dr.J.Ida Christy	M.E.,	Assistant Professor(SG)
Mr.J.Karthikeyan	M.E.,	Assistant Professor(SG)
Ms.M.Kanthimathi	M.E.,	Assistant Professor(SG)
Ms.D.Abisha	M.E.,	Assistant Professor(SG)
Ms.K.Amsaveni	M.E.,	Assistant Professor(SG)
Ms.R. Vazhan Arul Santhiya	M.E.,	Assistant Professor
Ms.Navedha Evanjalín.R	M.E.,	Assistant Professor
Ms.A.Lincy	M.E.,	Assistant Professor
Ms.S.G.Janani Ratthna	M.E.,	Assistant Professor
Ms.G.Pavithra	M.E.,	Assistant Professor
Ms.A.Rajalakshmi	M.E.,	Assistant Professor
Ms.R.Sandhiya	M.E.,	Assistant Professor
Ms.M.Gayathri	M.E.,	Assistant Professor
Ms.T.Rajeswari	M.E.,	Assistant Professor
Ms.V.Maheswari	M.E.,	Assistant Professor
Ms.M.N.Rathina Prabha	M.E	Assistant Professor
Ms.G.Anitha	M. TECH	Assistant Professor
Ms.M.Vaijayanthimala	M.E	Assistant Professor
Mr.S. Vignesh Kandasamy	B.E., PG Dip	Asst. Prof. of Practice

Non – Teaching		
Name of the Faculty	Qualification	Designation
Ms.G.Menalosani	MCA.,	System Programmer
Mr.L.Pandi	MCA.,	Lab Technician
Mr.G.Paul raj	DCSE	Lab Technician
Mr.R.Deepakkumar	DCSE	Lab Technician
Mr.A.Rakesh	ITI	Attendar



Department of **Electronics and Communication Engineering**

Electronics & Communication Engineering

Electronics and Communication Engineering (ECE) department was established in 1984 to produce engineers with rich knowledge in core and allied fields. It offers an undergraduate program B.E. - Electronics and Communication Engineering and a post-graduate program M.E. – Embedded System Technologies. The department has been recognized as a research centre for pursuing a doctoral degree in Information and Communication Engineering. The department is equipped with state-of-the-art facilities that offer a conducive environment for the students to do academic, research and innovation activities. The department has well-qualified and dedicated faculty team to educate and mentor the students to achieve their career goals.

VISION

- ▶ To produce Electronics and Communication Engineers capable of generating a knowledge economy with social responsibility.

MISSION

- ▶ To impart high quality education with ethical behaviour.
- ▶ To equip the students compatible with recent trends in Electronic industries.
- ▶ To develop leadership qualities with humanity, wisdom, creativity and team spirit
- ▶ To provide a passionate environment for continual learning.

Program Educational Objectives (PEOs)

- PEO 1: Graduates will excel in professional careers across core and allied domains of Electronics and Communication Engineering.
- PEO 2: Graduates will pursue higher education and engage in innovative research, product development, and technological advancement in core and interdisciplinary fields.
- PEO 3: Graduates will demonstrate leadership and project management competencies by contributing to community or industry initiatives that address societal needs.

Program Specific Outcomes (PSOs)

- PSO1: Analyze and design a compact and efficient system using modern tools in VLSI and Embedded systems.
- PSO2: Design and develop systems to solve contemporary problems in signal Processing, communication and networks for applications using modern Tools and techniques.

Features of the Department

- ▶ B.E. (Electronics and Communication Engineering) program is accredited as Tier-1 UG program by the National Board of Accreditation, New Delhi.
- ▶ ECE department is recognized as a Research Centre by Anna University, Chennai.
- ▶ Outcome-based education and choice-based credit systems are followed.
- ▶ To meet the expectation of industries from graduates, the department engages industrial experts in framing curriculum and syllabus. The department inducted Professor of practice from industry.
- ▶ The department has 9 curricular labs and 4 special labs such as Product Development Centre, Semiconductor Chip Testing lab, Centre for Antenna / PCB Design & Fabrication and Centre of excellence for RADION- Centre for RADAR Innovation, Intelligent Operations & Networks, IGNITE Intelligent Generation of Next-gen Integrated Technology & Embedded Systems . The department has seminar hall and smart class room equipped with ICT tools for teaching and learning process. It also has ICT enabled classrooms.
- ▶ The department has consistent placement record of above 90% with the highest salary of 18 LPA and an average salary of 4.55 LPA, in reputed companies.
- ▶ Department has signed MoU with IIT Guwahati, IIT Hyderabad, M/s.Tessolve Semiconductor Private Limited, and M/s. Mistral Solutions Pvt. Ltd. Edge Matrix Corporation for student skill transformation on various domains. Offering research-oriented higher-level settlement for PG students.
- ▶ Offering research-oriented higher-level settlement for PG students.
- ▶ All laboratories and classrooms are equipped with ICT facilities to enhance integrated learning.
- ▶ Exclusive department library with a recent collection of books on different topics.

Focus Group

Our department has 6 Focus Groups (SIG) for their concerned research, to discuss and explore the recent advancement in engineering and technology

- | | |
|-----------------------------|--|
| ◆ Embedded and Networking | ◆ RF and Microwave Technologies |
| ◆ VLSI | ◆ Communication Technologies |
| ◆ Signal & Image Processing | ◆ Industrial Internet of Things (IIOT) |

Each Focus Group is led by a Focus Group Head who stimulates discussion and exploration among group members. The staff members help students gain deep insights and specialized knowledge in their areas of interest.

Academic Laboratory Facilities:

Laboratories are important resources for undergraduates & post graduates engineering courses to validate their theoretical understanding through experiments. The department has 9 laboratories to cater to the academic needs of the students.

Electronic Devices and Circuits Laboratory: This lab is used to study, design and analyze electronic circuits such as biasing circuits, amplifiers, oscillators, and filters using diodes, transistors, FETs, and transformers. It is equipped with function generators, cathode ray oscilloscopes, digital storage oscilloscopes, and regulated power supplies to develop circuit design and analysis skills.

Integrated Circuits Laboratory: This lab is used to design and construct analog and digital electronic circuits using analog and digital ICs. It is equipped with IC tester, digital IC trainer kits, function generators, DSOs and other consumables to do experiments on signal operations, filter design, oscillators, data converters, comparators, multiplexers, flip-flops, counters, shift registers, sequence detectors and waveform generators.

Microprocessor Laboratory: This lab is used to demonstrate microprocessor hardware and software using trainer kits and interfacing modules. The students develop skills in assembly language programming, CPU, memory, interfacing programmable peripherals and I/O design using this lab facility. It is equipped with Microprocessor kit (8085), Microprocessor kit (8086), Microcontroller kit (8051), Interface boards such as PPI, DMA Controller, Interrupt Controller, Timer, ADC, DAC, Serial Communication, Stepper Motor, Traffic Control, Keyboard and display control, PC based interface, Oscilloscopes, Function generator, power supplies, RS-232 cable & connector, Universal programmer.

Digital Signal Processing (DSP) Laboratory: DSP laboratory is well equipped with high-performance Intel core i5 & i7 systems with internet connectivity. Software packages such as MATLAB R2021B, LabVIEW, Multi Sim, ORCAD Capture PSpice, Easy PC, Top view simulator, Visual C++ and Code Composer Studio are installed in the systems. Real-time signal/image processing studies are carried out using target board TMS320C6711/ 6713/6416/6748 Processors.

VLSI Laboratory: To meet the recent trends in IC design, this laboratory is equipped with the following software and hardware tools. CADENCE Perceptual licensed tool, Quartus II SOPC Builder Tool, Xilinx VLSI Software foundation series 5.1i, Xilinx Software System edition Ver.11.1. Hardware equipment available: Xilinx Spartan 3 /Spartan 3E FPGA Trainer Kit, Xilinx make Universal FPGA Trainer Kits., Complex Programmable Logic Device (CPLD) Trainer kit, Universal Trainer Model MXUK, Universal VLSI Trainer Kit, Universal Multi-vendor Development Kit, Altera make Cyclone III FPGA Trainer Kits, Altera make Cyclone V FPGA trainer Kits with SOPC Builder, ZYNQ FPGA Development Board, GensysVirtex 5 FPGA Development Board, Automatic Test Engineering Training Kits.

Networks Laboratory: A well-equipped, fully air-conditioned Networks Laboratory is available with a Fedora Linux Server, Routers, Switches, Hubs, Wall-Mounted Projector, Benchmark LAN Trainer Kits, and high-performance Intel Core i5 systems running Fedora Linux. The laboratory accommodates 40 students, with all systems interconnected through a Local Area Network (LAN). The systems are equipped with networking and security tools such as Wireshark and Cisco Packet Tracer, enabling students to analyze and experiment with MAC Sublayer and LLC Sublayer protocols of the Data Link Layer, Routing Protocols of the Network Layer, and to simulate Mobile Ad Hoc Networks (MANETs) and Wireless Sensor Networks (WSNs). The laboratory is also integrated with Python and PyCharm IDE, providing a platform for implementing Artificial Intelligence search algorithms, evaluating supervised and unsupervised Machine Learning techniques, and developing classifiers using pre-trained models.

Microwave Wireless Technology Laboratory: The laboratory is equipped with AM, FM, PM, ASK, FSK, and PSK modulation kits, a Time Division Multiplexing (TDM) kit, a Sample-and-Hold kit, Digital Storage Oscilloscopes (DSOs), X-band and J-band microwave test benches, and a 600 MHz antenna trainer kit with RF antennas. In addition, the laboratory is equipped with CST Microwave Studio (20-user Academic Pack) for the design and simulation of RF and microwave components. The laboratory also features Universal Software Radio Peripheral (USRP) transceivers, 2 × 2 MIMO USRPs, sub-6 GHz 5G Software Defined Radio (SDR) kits, and a Rohde & Schwarz Spectrum Analyzer (5 kHz to 3 GHz) for rapid prototyping of physical-layer communication protocols and wireless systems. Furthermore, it is equipped with standardized wireless evaluation boards, including LoRa nodes and gateways (both indoor and outdoor), Wi-Fi and Bluetooth Low Energy (BLE) modules, antenna trainer kits, and basic modulation and demodulation kits to facilitate wireless communication system design, product development, testing, and performance evaluation.

Embedded System Laboratory: This Laboratory is equipped with higher-end processors-based systems which enable students to design processor-specific embedded system with added intelligence. The major equipment available are ARM 7 Embest Teaching kit, ARM 9 Embest Teaching kit, Tiny 2440 (ARMII) kit, LPC 21XX Philips Development kit, SBC 6 XXX Samsung development kit, MCB 1857 Cortex M3 kit, Cortex M4 development, MSP430 Development boards, Development kit 8700 (OMAP 3750) kit, PSoC Development kits, ARM 9-LPC 2929 Evaluation Board and Nvidia Jetson Boar, RL-78 Renesas Evaluation Board. This lab also has respective IDEs for each processor family such as CROSS Works for MSP 430, CROSSworks for ARM 7, Cube suite, PSoC creator, IAR workbench for MSP430, Keil version 4 Professional, SAND TIGER Board, SEGGER emPower Board, Intel NUC Board, RealSense Camera ZR300 (Stereo Vision), Logitech 720P (Mono Color Vision) and ZED-2y Camera.

e-Yantra Robotics Laboratory: e-Yantra lab encourages a “Can-do” attitude amongst students, that prepares them for a career in research or as technology entrepreneurs. Students are encouraged to use robots to solve real-life problems. The major equipment is Firebird V Robot, Spark V Robot, AT Mega 2560 Development Board, PS9V51 Development Board, Arduino Mega 2560 Board, Robotic Arm - 2 -axis, 4-axis, Parallel Gripper, Metal gear Servo motor, GPS interfacing module for the robot, Raspberry Pi board, AVR ISP USB Programmer, Zigbee module, USB TV Tuner for interfacing wireless camera with laptop, Two-Axis camera pod with wireless camera.

Special Laboratory Facilities

The department has the following 4 special laboratory facilities to cater to the needs of the students to transform their skills and develop knowledge on core placement, innovation and research.

Semiconductor Test Engineering Laboratory: This lab is established in 2017 in collaboration with M/s. TESSOLVE Semiconductors Pvt. Ltd., Bangalore to develop students' skills in the semiconductor test engineering domain. This Lab includes ADM's LG Lite ATE kits, Universal load boards, MOKUGO ATE Kits and industry-oriented study materials. After successfully obtaining the STE-SDE certification by M/s. TESSOLVE Semiconductor Pvt. Ltd., the students will get placement in TESSOLVE Semiconductors Pvt. Ltd.

Product Development Centre: Product development Centre is established in 2017 to nurture the students to convert their innovative ideas into products. It is equipped with sensors, actuators, embedded development boards, IoT trainer kit and IoT connectivity modules to develop products. Through this centre the students are disseminating their core knowledge in developing products and they are participating in various competitions like Hackathons and getting recognitions. This centre is also utilized for regular curricular activities such as product development laboratory, mini project and main project.

Research and Development Centre (R&D Centre): This facilitates a conducive environment for postgraduate students and Ph.D. research scholars with state-of-the-art facilities to do research activities. This centre is equipped with mm wave radar boards, spectrum digital boards, thermal image processing workstations, ARM cortex boards, camera interfaces, display interfaces, higher-end computer system and TCAD software. These facilities are utilized for doing research in the area of wireless system design and development, embedded system design, thermal image processing and semiconductor device modeling. This centre is also equipped with EMI/EMC compatible work tables and seating arrangements to design and test electronic systems using higher end processors.

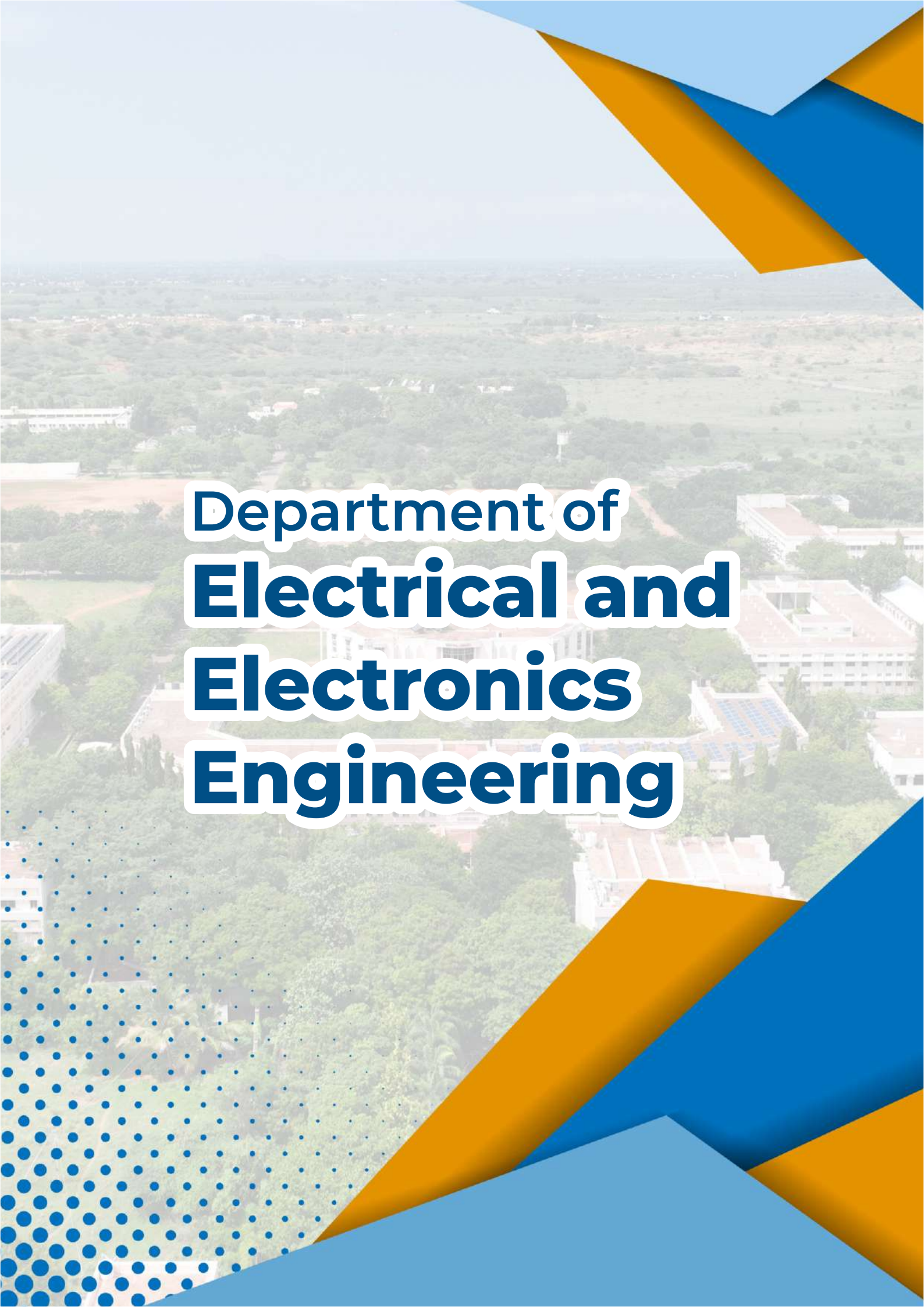
Centre for Antenna/PCB Design and Fabrication: This Centre was established in the ECE department during the academic year 2022-2023. This centre enables faculty and students to develop prototypes. It also supports faculty members conducting research in the RF and microwave domains by allowing them to fabricate designed antennas. The laboratory is equipped with a PCB Prototype Making and Antenna Designing Machine and the High-Frequency Structure Simulator (HFSS) software tool. Students working on projects use the HFSS software for simulations and proceed with fabrication once the simulation results meet their specifications.

Faculty List

Teaching		
Name of the Faculty	Qualification	Designation
Dr.S.Tamil Selvi	M.Tech. Ph.D.,	Professor & Head
Dr.A.Shenbagavalli	M.E., Ph. D.,	Prof & Dean (Academic)
Dr.T.S.Arun Samuel	M.E., Ph. D.,	Professor
Dr.V.Suresh	M.E., Ph. D.,	Professor
Dr. K.J.Prasanna Venkatesan	M.E. Ph.D.,	Associate Professor
Dr.C.Balamurugan	M.E. Ph.D.,	Associate Professor
Dr.I.Vivek Anand	M.E. Ph.D.,	Associate Professor
Mr.T.Devakumar	M.E.,	Assistant Professor (SG)
Mr.S.Cammillus	M.E.,	Assistant Professor (SG)
Dr.K.Subramanian	M.E.,	Assistant Professor (SG)
Dr.R.Manjula Devi	M.E. Ph.D.,	Assistant Professor (SG)
Mr.B.Ganapathy Ram	M.E.,	Assistant Professor (SG)
Mr.M.Sathishkumar	M.E.,	Assistant Professor (SG)
Mrs.C.Kalieswari	M.E.,	Assistant Professor (SG)
Mrs.S.Sulochana	M.E.,	Assistant Professor (SG)
Ms.C.K.Balasundari	M.E.,	Assistant Professor (SG)
Ms.P.Arishenbagam	M.E.,	Assistant Professor
Dr.S.Lavanya	M.E. Ph.D.,	Assistant Professor

Mrs.S.Mugunthamala	M.E.,	Assistant Professor
Dr.S.Subaselvi	M.E., Ph.D	Assistant Professor
Ms.Pricilla Mary.S	M.E.,	Assistant Professor
Ms.E.Kirthiga @ Sridevi	M.E.,	Assistant Professor
Ms.G.Akalya Devi	M.E.,	Assistant Professor
Ms.N.Pathmavathi	M.E.,	Assistant Professor
Ms.V.Srirenga Nachiyar	M.E.,	Assistant Professor
Ms.S.Jenet	M.E.,	Assistant Professor
Ms.B.Siraj Dhowbika	M.E.,	Assistant Professor
Ms.S.Karthika	M.E.,	Assistant Professor
Mr.P.Parthasarathi	M.E.,	Assistant Professor
Dr.V.Lingasamy	M.E., Ph.D	Professor of Practice

Non – Teaching		
Name of the Faculty	Qualification	Designation
Gangadhara T Venkadesh. S	Msc., MPhil.,	Instructor
Mrs.S.Bairavi	B.B.M	Department Assistant
Mr.G.Rathinavel Pandian	B.Sc.,	Lab Technician
Ms.B.Santhi	DECE, BCA, M.SC., B.Ed	Lab Technician
Ms.V.Gowsalya	DECE	Lab Technician
Mr.Rakesh	DTT	Attendar



Department of **Electrical and Electronics Engineering**

Electrical and Electronics Engineering

The department infrastructure and laboratories are continuously being upgraded to enhance students' skills in problem-solving, creative thinking, integrated system design, open-ended experimentation, mini-projects, and course projects.

VISION

- ▶ Promoting active learning, critical thinking coupled with ethical values to meet the global challenges.

MISSION

- ▶ To instill state-of-the-art technical knowledge and research capability that will prepare our graduates for professionalism and life-long learning.
- ▶ To update knowledge to meet industrial and real world challenges.
- ▶ To inculcate social and ethical values.

Academic Laboratory Facilities:

Electrical Workshop

This is the most basic and essential laboratory which is used by first-year students of all branches of engineering and technology. This laboratory is well equipped with all kinds of electrical accessories to practice single-phase and three-phase house wiring, electrical terminals, soldering iron, earth resistance tester, winding machine, working and assembling of the fan, and iron box to perform the whole gamut of experiments as per the prescribed syllabus of the course on basic electrical and electronics engineering.

Electrical Machines Laboratory

The laboratory has DC machines, Induction Motor and Generator, Synchronous Motor, Salient and Non-Salient Alternators, Switched Reluctance Motor and their simulated models, DC Rectifiers, Programmable Variable Frequency Drive (VFD), Indoor Type Transformer, Electrical Machine Tutor, Phase shifting Transformer, Winding Study Motor and DC Drive Control Panel.

Electronics Laboratory

This laboratory is well equipped with apparatus related to Network Theorems, Electronic Devices and Circuits, Linear and Digital Integrated Circuits, Power Measurement, Power Supplies, Digital Storage Oscilloscopes, Signal Generators etc. The laboratory is used for the development of different applications with the help of various hardware prototypes and models in the area of analog and digital electronics. This laboratory is being used by the under-graduate students of all branches of Engineering and technology. This laboratory is equipped with 8085/8086 Microprocessor, 8051 Microcontrollers, PIC, Arduino, Raspberry Pi Microcontrollers and various interface cards such as traffic light controller, stepper motor interfacing, ADC & DAC Interfacing Cards, keyboard and digital controllers, DSP kit, FPGA based motor controller.

Control and Instrumentation Lab

In the Workbench, students work with instrumentation, control and calibration of Sensors, Transducers, AC & DC Servomotors, PID Controller Unit, AC & DC Position control systems, three-phase energy meters and Multifunction meters. In the simulation section, MATLAB, Lab VIEW simulation platform helps in the analysis and design of compensators and controllers using time domain and frequency domain specification. In the PC interfacing section, Hardware interfacing using ELVIS II+ interfaces with LABVIEW for rapid prototype development and rotary inverted pendulum. It has Twin Rotor Motor System (TRMS) MIMO helicopter model established from an AICTE funded project. It also has the latest robotic models like Quanser QBOT 2e with MATLAB interface, Lego Mindstorm Robot development module, IoT based sensor interface for signal processing.

Project Laboratory

The laboratory is equipped with various sensor modules, microcontroller development boards, robotics-based components and consumables. The students can make use of components, sensors, learning kits and equipment from the forum for practicing their real-time projects. MINI PROJECT forum is actively functioning in the Laboratory to develop the practical skills of the students in the Project Laboratory. The objective of the forum is to create practical knowledge about the fundamentals of analog and digital electronics and to motivate the students to practice some real-time application-oriented projects. The lab is equipped with an 8S2P LiFe PO₄ battery configuration, featuring a 25.6V and 12Ah specification, as well as a single-cell analyzer kit with a 3.2V and 6Ah specification. These tools, along with their charging and discharging characteristics, facilitate the basic study of batteries, which are a recent trend in the electric vehicle (EV) sector.

Power Electronics and Drives Laboratory

Complete Power Electronics experimentation and analysis related to AC & DC drives, AC to DC Converter, DC to AC Converter, Drive control, Choppers and FPGA based Inverter fed AC Drive, FPGA based buck-boost converter fed drive and SRM drive can be done in this laboratory. This laboratory is used by the undergraduate students of all branches of Engineering and technology. This lab is also equipped with computers for transient and simulation studies for power electronics.

Smart Protection & Control Lab

The State-of-the-art switch gear and Protection lab is equipped with modern tools like advanced Numerical Relay protection schemes like Overcurrent Protection, Transformer Protection, Distance Protection, Motor protection, conventional electromagnetic relays three-phase and single-phase relay test kit and SCADA-based substation automation and also ETAP software package, for the overall worth of Rs.17 Lakhs. Switch gear and Protection Laboratory of the Electrical Engineering Department is unique whereby using the latest numeric Relays, various faults occurring in the Power system are simulated & protection against various faults is demonstrated using the demonstration models which are obtained from the Manufacturer like GE (T&D) to students.

High Voltage Laboratory

This laboratory is an active centre for research in Dielectric Materials, Insulation Systems, High Voltage and related phenomenon. This laboratory also offers commercial testing and consultancy services. It has the state-of-the-art facilities like 100 kV AC, 140 kV DC and 280 kV Impulse Generation, Measurement and Testing, Partial Discharge Detector Interfacing with DSO, Loss Tangent Measurement and Measurement of Breakdown strength of Solid/Liquid/Gaseous dielectrics and Power Quality Analyzer. This laboratory is equipped with DST-FIST Funded Partial Discharge meter and ANSYS software package (Research license)

Liquid Dielectrics Laboratory

This laboratory is established under the Department of Science and Technology. This lab has the facility of UV Spectrometer for characterization of the optical changes that occur on ageing, Viscometer, Flash and Fire point apparatus, Digital Density Meter, Pour Point Apparatus, Thermal Ageing Chamber, Magnetic Stirrer and Ultrasonic bath along with heater for condition monitoring of liquid dielectrics, Field test kit, pH meter, Conductivity meter, Hot Air Oven, Acidity testing kit, Automatic Moisture Karl Fischer Titrator for the analysis of liquid insulating medium used in the high voltage power apparatus.

Computer Centre

This laboratory holds current configuration systems with high-speed internet facility. Computer centre is a multipurpose laboratory with advanced software such as ETAP POWER STATION, PSCAD/EMTDC, MATHCAD & VISSIM PE, MATLAB. The laboratory is equipped with 40 computer systems supported by HP-Intel Xeon E5-2407 server and provisions are made for 100 systems with networking. It has internet facility at the speed of 161 Mbps (LAN & WiFi) with leased line. The lab has 20 KVA UPS facility to afford an uninterrupted power supply facility. The undergraduate students utilize internet and the advanced software tool facilities with their laptops and computers available in the computer centre.

Industrial Automation Laboratory

This lab deals with industrial process control demonstration models and experimental setup for engaging students with real industrial environment. It consists of PLCs of top brands like Siemens S7 1200, GE Versa-pro available for real-time ladder program development and process parameter control mechanism involves temperature, pressure, level and flow variations. It also has a SCADA interface using Simatic Win CC platform with an HMI interface to experience the real industrial process monitoring and control application.

Active Classroom

A newly established Active classroom in the department enhances the learning through Group activities with reconfigurable seating arrangements. Audio-video facility with smart board, 65 "SENSES LITE INTERACTIVE INTELLIGENT PANEL-4K.

Seminar Hall

The department is equipped with a seminar hall featuring a smart board and multimedia system. The hall has a seating capacity of 150 students and is utilized for seminars, presentations, workshops, and placement-related activities.

Class Room Facilities

The classrooms are facilitated with 49 - inch smart televisions in addition to conventional teaching aids and classroom facilities.

Faculty List

Teaching		
Name of the Faculty	Qualification	Designation
Dr.M.Willjuice Iruthayarajan	M.E., Ph.D.,	Professor & Head
Dr.L.Kalaivani	M.E., Ph.D.,	Professor
Dr. R.V.Maheswari	M.E., Ph.D.,	Professor
Dr.B.Vigneshwaran	M.E., Ph.D.,	Associate Professor
Dr.S.Sankarakumar	M.E., Ph.D.,	Associate Professor
Dr.M.Gengaraj	M.E., Ph.D.,	Associate Professor
Dr.B.Venkatasamy	M.E., Ph.D.,	Assistant Professor (SG)
Dr.P.Samuel Pakianathan	M.E., Ph.D.,	Assistant Professor (SG)
Mr.M.Sivapalanirajan	M.E.,	Assistant Professor (SG)
Mr.K.Kumar	M.E.,	Assistant Professor (SG)
Mr.K.Karthik Kumar	M.E.,	Assistant Professor (SG)
Mr.F.Antony jeffrey vaz	M.E.,	Assistant Professor (SG)
Dr.F.X.Edwin Deepak	M.E., Ph.D.,	Assistant Professor (SG)
Mr.J.Thangaraj	M.E.,	Assistant Professor (SG)
Mrs.C.Dhanalakshmi	M.E.,	Assistant Professor
Dr.S.Dharmalingam	M.E., Ph.D.,	Professor of Practice

Non – Teaching

Mr.S. Alagesan	DEEE	Sr.Lab Technician
Mr.S. Ponmariappan	DECE	Lab Technician
Ms.S. Subha Revathi	DEEE	Lab Technician
Ms.P. Jayasrilakshmi	B.Sc.,	Department Assistant
Mr.S. Kesavaprasath	SSLC	Attendar



Department of **Information Technology**

Department of Information Technology

The Department of Information Technology, established in 2001, offers both undergraduate and postgraduate programmes:

- **B.Tech. Information Technology**
- **M.Tech. Information Technology**
with specialization in Information and Cyber Warfare

The department provides an excellent academic ambience that fosters learning and equips students with industry-ready skills. It is supported by state-of-the-art laboratories, enabling students to gain hands-on experience with the latest technical trends.

The department is strengthened by a team of highly qualified faculty members with rich teaching experience and is recognized as a research centre to promote advanced research activities.

Students are trained in emerging domains such as:

- **Data Analytics**
- **Brain Signal Processing**
- **Cybersecurity**
- **Internet of Things**
- **Machine Learning**
- **Cloud Computing**
- **Artificial Intelligence**
- **Computational Intelligence**

This holistic approach ensures that graduates are well-prepared to meet the challenges of the global IT industry and contribute meaningfully to research, innovation, and technological advancement.

VISION

- ▶ To produce technically competent and value based IT professionals to meet the current challenges of the modern IT industry.

MISSION

- ▶ Imparting quality education with innovative components in teaching learning process.
- ▶ Conducting student centric programme to enhance communication, team spirit, leadership skills and self learning.
- ▶ Motivating the students to realize the need of ethics and human values.
- ▶ Developing a conducive environment for collaborative research.

Salient Features of the Department

- ▶ **AICTE Approved Intake:** 60 students per year for B.Tech. Information Technology and 6 students per year for M.Tech. Information Technology (specialization in Information and Cyber Warfare).
- ▶ **NBA Accreditation:** Accredited under Tier-1 category by the National Board of Accreditation.
- ▶ **Research Recognition:** Recognized as a Research Centre of Anna University, Chennai.
- ▶ **Qualified Faculty:** Supported by 14 dedicated faculty members, including 8 Ph.D. holders and 4 pursuing doctoral research (h-index 13). Four faculty members are recognized as Anna University Supervisors in domains such as Data Analytics, Image Processing, and Brain Signal Processing.
- ▶ **Special Interest Groups:** Three SIGs established in Data Analytics, Cybersecurity, and Computational Intelligence Systems to explore recent advancements.
- ▶ **Research Publications:** Faculty members consistently publish in SCI and Scopus-indexed journals.
- ▶ **Faculty Achievement:** Dr.V.Anitha, Assistant Professor (Senior Grade), won third prize in Engineering Sciences at Saransh 2025 – National Competition of Research Excellence (NCRE) organized by INYOS.
- ▶ **Curriculum Excellence:** A well-defined curriculum integrates project-based learning and experiential learning opportunities.
- ▶ **Cybersecurity Laboratory:** A specialized laboratory inaugurated to provide hands-on training and practical exposure in cybersecurity technologies.
- ▶ **Industry Collaboration:** MoUs signed with BS Teknology Pvt. Ltd., UnAbondan AI, Coderzbot, and Alpha Business Solutions to align student learning with industry needs.
- ▶ **Placement Record:** Consistent 90%+ placement every year, with the highest package of 12.5 LPA; students also secure internships in reputed MNCs.
- ▶ **IT Association:** A technical forum conducting activities to enhance students' leadership and teamwork skills.
- ▶ **Product Development:** Students have developed 11 funded products (NewGen IEDC, TNSCST) and published 4 patents.
- ▶ **Hackathon Participation:** Active participation in Smart India Hackathon, Codeathons, and Ideathons organized by reputed institutions.

- ▶ **ICT Academy Training:** Regular training programmes conducted for faculty and students.
- ▶ **NPTEL Courses:** Students are encouraged to pursue NPTEL courses to foster lifelong learning.
- ▶ **Sports Achievements:** Students have won prizes in national-level sports competitions, including Hockey and Badminton.

Laboratory Facilities

The department laboratories are designed to support both academic learning and research activities for students and faculty. They are equipped with 170 high-performance computers installed with the latest software tools such as NetBeans, Eclipse, Android Studio, MATLAB, and R, enabling application development in programming, web technologies, network simulation, and cyber security. In most laboratory courses, students are encouraged to develop projects that foster critical thinking and problem-solving skills, preparing them for real-world challenges.

Key Laboratory Courses

- Java Programming Laboratory
- Cryptography and Network Security Laboratory
- Modern Web Technologies Laboratory
- Big Data Analytics Laboratory
- Mobile Technologies Laboratory
- Data Engineering Laboratory
- Advanced Data Structures Laboratory
- Data Structures Laboratory
- Object-Oriented Programming Laboratory
- Operating Systems Laboratory
- Networking Laboratory
- Database Management Systems Laboratory
- Cloud Computing Technologies Laboratory

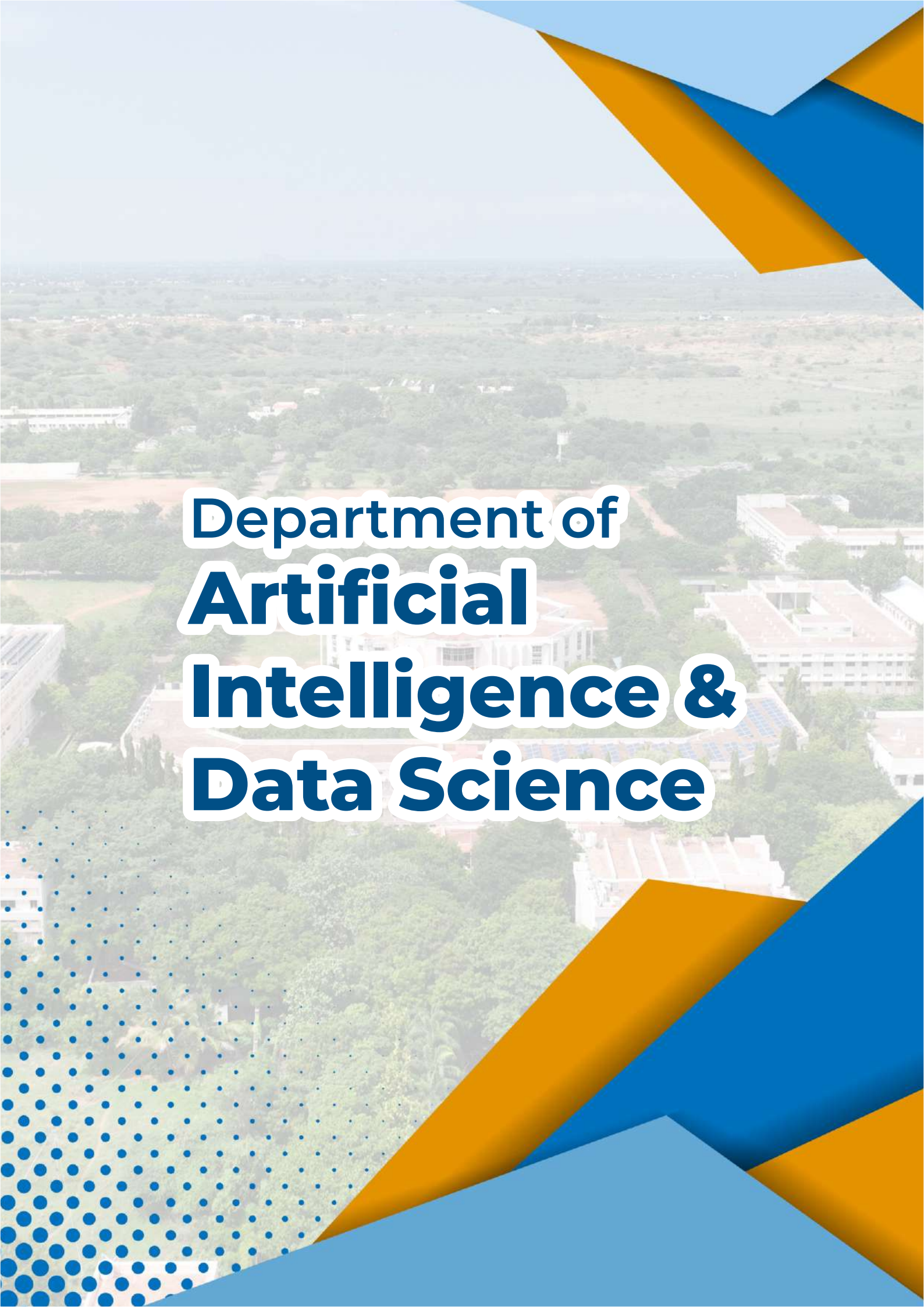
Additional Features

- ▶ The laboratories support both individual and group projects, offering collaborative spaces and tools that encourage teamwork and innovation.
- ▶ Technical support is readily available for software installation and guidance on the effective use of resources.
- ▶ The laboratories operate from 9:15 AM to 5:30 PM, Monday to Saturday, ensuring ample access time for all users.

Faculty List

Teaching		
Name of the Faculty	Qualification	Designation
Dr.R.Muthukkumar	M.E., Ph. D.,	Professor & Head
Dr.K.G.Srinivasagan	M.E., Ph. D.,	Professor
Dr.S.Chidambaram	M.E., Ph. D.,	Professor
Dr.V.Manimaran	M.E., Ph. D.,	Associate Professor
Dr.S.Rajagopal	M.E., Ph. D.,	Associate Professor
Dr.V.Anitha	M.E.,	Assistant Professor (SG)
Ms.N.Gowthami	M.E.,	Assistant Professor (SG)
Dr.M.Manimegalai	M.E.,	Assistant Professor (SG)
Ms.S.Santhi	M.E.,	Assistant Professor (SG)
Ms.R.Suguna	M.E.,	Assistant Professor
Ms.M.Malathi	M.E.,	Assistant Professor
Dr.J.Beno Ranjana	M.E.,	Assistant Professor
Ms.S.Bagavathi Gayathri	M.Tech.,	Assistant Professor
Ms.S.Kavitha	M.E.,	Assistant Professor
Mr.S.Rajendran	M.Tech.,	Professor of Practice

Non – Teaching		
Name of the Faculty	Qualification	Designation
Ms.M.Jayanthi	B.Sc.,	Lab Technician
Ms.M.Ponmaruthu	B.Sc (Comp)	Lab Technician
Ms.A.Selvalakshmi	B.Com.,	Department Assistant



Department of **Artificial Intelligence & Data Science**

About the Department

The Department of Artificial Intelligence and Data Science was established in the year 2022. The goal of the department is to ensure the academic excellence in students with wide exposure of research and career opportunities. The unique undergraduate program, B.Tech Artificial Intelligence and Data Science (AI & DS), aims the students to acquire technical skills to perform data analytics, develop robotics automation systems and visualization in emerging real-time applications. Program envisions to equip students with the ability to identify and assess societal, health, safety and cultural issues with an emphasis on identifying their consequent responsibilities as engineers offering optimal and effective solutions. The department is well equipped with state-of-the-art infrastructure to empower the students with the state of art technologies.

VISION

- ▶ To produce globally competent, innovative, computing professionals to meet current challenges in the field of Artificial Intelligence and Data Science with social responsibilities.

MISSION

- ▶ Offering well-balanced curriculum with state of the art technologies to impart professional competencies and transferable skills.
- ▶ Bringing innovations in Teaching-Learning process through experienced learning and project/product based learning.
- ▶ Collaborating National and International Industries and Academia to develop foresight technologies in Artificial intelligence and Data Science.

Salient Features of the department

- ▶ AICTE-approved annual intake of 60 students for the B.Tech. AI&DS programme.
- ▶ Experienced faculty with research publications in over 20 SCI and Scopus-indexed journals.
- ▶ Outstanding placement record exceeding 98.4%, with the highest package at 12.5 LPA and an average of 5 LPA; 62 students placed in leading companies.
- ▶ Most of the students are placed in AI companies like vCreaTek Pune, Surmount Energy Solutions Mumbai, Survey Sparrow Chennai.
- ▶ Modern, high-performance laboratories equipped with GPU-enabled workstations for implementing advanced AI and data science projects.
- ▶ Consultancy project with Office of Superintendent of Police, Tuticorin, Govt. Higher sec.school, Sippiparai, Mano Innovation club, Kovilpatti.
- ▶ Received funding from IE(I), Kolkata, for Empirical Intelligent Cyber Security Strategies for Reliable Data Transmission in AIoT Systems for Rs.90,000/-

- ▶ Active AI & DS Association (AI&DSA) and AI Club organizing diverse technical and extracurricular events for student enrichment.
- ▶ The MoUs signed with industry partners: M/s Hostwire Systems (Chennai), M/s Lyanna Pvt. Ltd. (Trichy), and M/s Stashook Pvt. Ltd. (Chennai).
- ▶ GATE Coaching Forum and Department-level Student Technical Training Programme (STTP) to support higher studies and placement readiness.
- ▶ Active student participation in TCS CodeVita, HackWithInfy, with consistently high national rankings.
- ▶ Committed to an inclusive academic environment that encourages research, innovation, and holistic student development.

Laboratories

Data Analytics Laboratory

The Data Analytics Laboratory is equipped with high-end Core i7 systems featuring dedicated graphics cards and GPU processors. The lab supports comprehensive data analysis workflows using Python and its ecosystem of libraries including NumPy, SciPy, Matplotlib, Pandas, Statsmodels, Seaborn, Plotly, and Bokeh. Students engage in a wide range of experiments covering mathematical modelling, linear algebra, Fourier transforms, statistical analysis, data prediction, decision-making processes, and interactive data visualization using large-scale datasets.

Artificial Intelligence Laboratory

The Artificial Intelligence Laboratory features high-performance Core i7 workstations and NVIDIA GPU-enabled computing systems with high-speed networking, purpose-built for AI research and application development. Students work with industry-leading frameworks including Python, TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, NumPy, Pandas, Matplotlib, and Jupyter Notebook. The lab enables hands-on learning in machine learning, computer vision, natural language processing, reinforcement learning, and predictive analytics. Students develop practical skills in data preprocessing, feature engineering, model training, hyperparameter tuning, and deployment of real-world AI applications such as image classifiers, chatbots, recommendation systems, and speech recognition tools.

Deep Learning Laboratory

The Deep Learning Laboratory is a specialized, high-performance facility supporting advanced research and education in deep learning and neural network design. It is equipped with Core i7 workstations, NVIDIA GPU systems, CUDA, and an extensive suite of frameworks including TensorFlow, Keras, PyTorch, OpenCV, and Jupyter Notebook. Students gain in-depth, practical exposure to artificial neural networks, CNNs, RNNs, LSTM networks, transformers, attention mechanisms, autoencoders, and Generative Adversarial Networks (GANs). The laboratory supports projects in image classification, object detection, facial recognition, speech processing, machine translation, sentiment analysis, and generative AI. By working with real-world datasets, students build expertise in model architecture design, training strategies, performance evaluation, and deployment, preparing them for advanced careers in AI, Computer Vision, NLP, and Data Science.

Faculty List

Teaching

Name of the Faculty	Qualification	Designation
Dr.V.Kalaivani	M.E., Ph.D.,	Professor & Head
Dr.J.Naskath	M.E., Ph.D.,	Associate Professor
Mr.A.Shenbagharaman	M.E.,	Assistant Professor(SG)
Mrs.V.Veera Anusuya	M.E.,	Assistant Professor(SG)
Mrs.K.Poorani	M.E.,	Assistant Professor
Mrs.P.Rampriya	M.E.,	Assistant Professor
Mrs.G.Dhivya	M.E.,	Assistant Professor
Ms.P.Swarna Gowsalya	M.E.,	Assistant Professor
Ms.M.Saranya	M.E.,	Assistant Professor
Ms.N.Subhashini	M.E.,	Assistant Professor
Mr.R.Jayaseelan	M.E.,	Assistant Professor
Ms.R.Madhubala	M.E.,	Assistant Professor
Ms.S.Renganayaki	M.Tech.,	Assistant Professor
Mr.D.Ravirathinam	M.E.,MBA.,	Professor of Practice

Non – Teaching

Name of the Faculty	Qualification	Designation
Ms.M.Packiya Lakshmi	M.Sc.,	Lab Technician
Ms.A.Iswarya	B.Com	Department Assistant
Mr.S.Kesava Prasath	SSLC	Attender



Department of **Civil** **Engineering**

VISION

- ▶ Producing Outstanding Civil Engineering Professionals With human Values to face future Challenges

MISSION

- ▶ To Provide with excellent teaching and research ambience
- ▶ To prepare student for leadership roles in Civil Engineering
- ▶ To Facilitate with lifetime Skills and human values
- ▶ To Collaborate with industries to meet the ever Challenging Environment.

Salient Features of the department

- ▶ The Department was started in the year 2012 with an intake of 60 students per year for the UG course, approved by AICTE.
- ▶ Supported by 13 qualified and dedicated faculty members, among whom 4 are doctorates and 9 are pursuing doctoral degrees.
- ▶ An exclusive separate building with a total area of 3500 sq. m. (GF – 1750 sq. m., FF – 1750 sq. m.) and all amenities is provided with excellent laboratory facilities.
- ▶ The Department of Civil Engineering is recognized by Anna University, Chennai, as a Research Centre to offer Ph.D. programmes.
- ▶ Funds worth ₹12.5 lakhs were sanctioned by New Gen IDC for product development activities.
- ▶ Funds worth ₹1 lakh were sanctioned by Unnat Bharat Abhiyan (SEG) to bring transformational change in rural development processes.
- ▶ Funds worth ₹15,000 were sanctioned by TNSCST for the Student Project Scheme.
- ▶ Consistent placement record of 100% for the past 3 years.
- ▶ Testing and consultancy worth ₹20 lakhs were carried out by faculty members during the past two academic years.
- ▶ It is recognized by the Rural Development and Panchayat Raj Department of the Government of Tamil Nadu to undertake testing, design, and consultancy activities.
- ▶ The Department is a recognized Remote Nodal Centre of IIRS for conducting online courses and outreach programmes.
- ▶ It has set up the research laboratory, Corrosion Analysis and Health Monitoring Laboratory, through seed funding from the Management, with the goal of enhancing applied research, knowledge dissemination, and consultancy services in the field of infrastructure health and durability.

- ▶ Over the past 12 years, 120 students from Civil Engineering have pursued higher studies at premier institutions such as IIT, NIT, NICMAR, Anna University, and universities abroad, including the University of Windsor, Canada, and the University of Strathclyde, Glasgow, Scotland.
- ▶ A One-Week Faculty Development Programme (FDP) under the AICTE–ATAL Academy 2025–26 on the theme Building Resilient Infrastructure to Earthquakes: From Design to Restoration was organized.
- ▶ The Department conducted the inauguration of its state-of-the-art Corrosion Analysis and Health Monitoring Laboratory, established through seed funding graciously sanctioned by the Management of National Engineering College.

Research Areas

Our faculty members are working in the following research domain and their works has been published in peer reviewed journals

- ▶ Smart Materials
- ▶ 3d Printing of concrete
- ▶ Supplementary Cementitious Materials
- ▶ High Performance concrete
- ▶ Fibre Reinforced Composites
- ▶ Structural Health Monitoring
- ▶ Repair and Rehabilitation of structures
- ▶ Solid Waste Management
- ▶ Waste water Treatment
- ▶ Ground Improvement Techniques
- ▶ Geo Physical Exploration
- ▶ Sustainable Materials and Technologies

Major SIG groups of the department which supports the education curricula and bring the innovation among the students are

- ▶ Structural
- ▶ Environmental
- ▶ Geotechnical
- ▶ Transportation
- ▶ Construction Management

Laboratory Facilities

Surveying Laboratory

The Surveying Laboratory was established during the academic year 2013–2014 and is equipped with the latest equipment. The asset value of the Surveying Laboratory is ₹19.76 lakhs, and it occupies an area of 854.29 sq. ft.

The equipment in the laboratory was supplied by M/s Lawrence and Mayo (India) Pvt. Ltd. The laboratory consists of instruments for distance measurement and for measuring the heights and angles of objects. It aims to provide students with the opportunity to practice plane and geodetic surveying using instruments such as the Sokkia Reflectorless Total Station, an advanced surveying instrument used for all types of surveying. GPS is used for determining the position of objects, while the Standard Vernier Theodolite is used for measuring horizontal and vertical angles. Other major instruments include the Pentax Auto Level and Dumpy Level, which are mainly used in road surveying. The laboratory is also equipped with minor instruments such as the Plane Table, Subtense Bar, Parallax Bar, Mirror Stereoscope, Prismatic Compass, Levelling Staff, Chain, Ranging Rod, Cross Staff, Tape, and Pocket Stereoscope.

CADD Laboratory

The Department of Civil Engineering Computer Laboratory was established in the year 2012–2013 to provide adequate knowledge on computer-based analysis, design, and drafting to the students. It has a well-equipped, centralized, air-conditioned computational centre with all advanced facilities, including 40 systems. The latest licensed STAAD.Pro software is used for the analysis and design of structural components. Various value-added courses such as Revit Architecture, Tekla, Navisworks, and BIM are conducted in the laboratory.

Soil Mechanics Laboratory

Established in the academic year 2013–2014, the Soil Mechanics Laboratory has all the equipment necessary for conducting undergraduate laboratory experiments. The asset value of the Soil Mechanics Laboratory is Rs. 12.11 lakhs, and the area is 1730.29 square feet. Major equipment was supplied by M/s Lawrence & Mayo (India) Pvt. Ltd. Major equipment for characterizing the engineering properties of soil is available in the laboratory, including the Triaxial Apparatus, Direct Shear Test Apparatus, Consolidation Test Apparatus, Laboratory Permeability Test Apparatus, Laboratory Vane Shear Test Apparatus, Unconfined Compression Test Apparatus, and compaction equipment such as the Standard Proctor Apparatus, Modified Proctor Apparatus, and CBR Apparatus. To determine the index properties and classify soil according to the Indian Standard Classification System, the laboratory is equipped with a Pycnometer, Hot Air Oven for determining water content, Set of Sieves, Hydrometer, Atterberg Limits Apparatus, and field density apparatus such as the Core Cutter and Sand Pouring Cylinder. In addition to the aforementioned equipment, the laboratory is furnished with Standard Penetration Test equipment and a Split Spoon Sampler to determine the safe bearing capacity for private construction firms and government organizations as part of soil consultancy works. Students are given practical training in conducting the Standard Penetration Test in the field during their course of study.

Environmental Engineering Laboratory

The Environmental Engineering Laboratory was established during the academic year 2013–2014 and is equipped with the latest equipment. The laboratory houses major equipment such as a BOD Incubator, COD Digester, Air Quality Analyser, Noise Level Meter, Centrifuge, and Autoclave. The instruments available in the Environmental Engineering Laboratory are adequate for the undergraduate programme of the Civil Engineering Department to assess the quality of drinking water and solid and liquid waste.

Concrete and Highway Engineering laboratory

The Concrete and Highway Engineering Laboratory was established in the academic year 2013–2014. The laboratory has facilities for both structural and highway material testing. The laboratory is equipped with almost all major equipment required to analyse the properties of construction and pavement materials with high precision. The equipment is periodically calibrated and certified by NABL.

The various equipment available in the laboratory are:

- ▶ Digitized Compression Testing Machine (3000 kN Capacity)
- ▶ Analog Compression Testing Machine (2000 kN Capacity)
- ▶ Aggregate Impact Testing Machine
- ▶ Projectile Impact Testing Machine
- ▶ Shrinkage and Moisture Movement Apparatus
- ▶ CBR Apparatus
- ▶ Compaction Factor Apparatus
- ▶ Vee-Bee Consistometer
- ▶ Centrifuge Bitumen Extractor
- ▶ Marshall Specimen Compactor
- ▶ Marshall Testing Machine
- ▶ Standard Tar Viscometer
- ▶ Ductility Apparatus
- ▶ Standard Penetrometer
- ▶ Ring and Ball Apparatus
- ▶ Flow Table
- ▶ Vibrator (Needle and Pan Type)
- ▶ Density Basket
- ▶ Concrete Mixer
- ▶ Rebound Hammer
- ▶ Accelerated Curing Tank

Faculty List

Teaching		
Name of the Faculty	Qualification	Designation
Dr.I.Padmanaban	M.Tech., Ph.D,	Professor & Head
Dr.V.Kannan	M.E., Ph.D,	Professor
Dr.C.Chella Gifta	M.E., Ph.D,	Professor
Mrs.M.Balamaheswari	M.E.,	Assistant Professor (SG)
Mr.V.Arulpandian	M.E.,	Assistant Professor (SG)
Mr.S.Kannan	M.E.,	Assistant Professor (SG)
Ms.P.Raja Priya	M.E.,	Assistant Professor
Dr.S.M.Leela Bharathi	M.E., Ph.D,	Assistant Professor
Mr.P.Satheesh Kumar	M.E.,	Assistant Professor
Ms.K.Bavithra	M.E.,	Assistant Professor
Mr.V.Krishna Sankar	M.E.,	Assistant Professor
Mr.N.Radha Krishnan	M.E.,	Assistant Professor
Dr.Lakshmi Narayanan	M.E., Ph.D,	Assistant Professor
Mr.G.Gagarin	M.E.,	Professor of Practice

Non – Teaching		
Name of the Faculty	Qualification	Designation
Mr.A.Murugan	D.C.E.,	Lab Technician
Mr.M.Kaliraj	D.C.E.,	Lab Technician
Ms.P.Ragavi	B.Sc.,	Office Assistant



Department of **Science and Humanities**

About the Department

The Department of Science and Humanities is a primal department comprising Chemistry, Physics, Mathematics, English and Tamil disciplines. All the disciplines in the department exist as separate divisions and maintain individual identities. The varied disciplines provide the fundamentals of Engineering and effective interpersonal communication skills to the students. Our dedicated faculty and staff are committed to fostering a collaborative and stimulating learning environment where students can develop critical thinking and problem-solving skills.

The department accomplishes the transformation of young aspiring minds into determined freshman engineers through Outcome Based Education. Besides, the department teaches students a positive ethos like developing moral behaviour among the students, utilizing human resources, and coordinating academic responsibilities, which are the exclusive potentials of the department through Value-Based Education. The department regularly organizes workshops, symposia, conferences and technical challenges in new emerging areas for the benefit of students, researchers, and faculty members, which instills an ever-ending desire to seek knowledge.

VISION

- ▶ Producing potentially competent freshman engineers with leadership qualities and human values.

MISSION

- ▶ To impart engineering fundamentals by providing Basic Science and Mathematics.
- ▶ To stimulate reading, listening and writing skills.
- ▶ To promote innovative culture among the students.

Salient Features of the department

- ▶ Highly equipped laboratories to uplift the students' practical knowledge.
- ▶ ICT (Information and Communication Technology) tool enabled smart classroom for interactive learning.
- ▶ Enhancing students' creativity through Project Based Learning.
- ▶ Facilitating the students to win accolades in IELTS, Linguaskill and GATE by providing special training sessions.
- ▶ Providing ample resources and a serene ambiance for the readers.
- ▶ Conducting social-related extension activities like State-level Quiz Competitions and motivational programmes for Higher Secondary School students.
- ▶ Creating placement awareness through alumni interactions and participation in technical events and competitions.

Laboratories

Chemistry Research Centre

The Chemistry Research Centre (CRC) was established in 2007 to develop the research activities in the department. The infrastructural and equipment facilities have been supported by various funded projects (BRNS, DST-SERB and CSIR) worth Rs. 1.75 Crore. A group of well-recognized faculty members with expertise in spectroscopy, electrochemistry, crystal growth, biological activities and computational chemistry has maintained the centre. Workshops, seminars and conferences are conducted to explain the functioning and applications of the instruments to the students of various institutions. Approved as a recognized Research Centre for Ph.D. programmes by Anna University, the Department of Chemistry offers research opportunities in the areas of Bio-Inorganic Chemistry, Medicinal Chemistry, Functional Materials, Sensors, and Environmental Science and Engineering.

Equipment Facilities

- ▶ FTIR Spectrophotometer – 8400S (SHIMADZU)
- ▶ High Performance Liquid Chromatography – LC-2010 CHT (SHIMADZU)
- ▶ UV-Visible Spectrophotometer – 2450 (SHIMADZU)
- ▶ Fluorescence Spectrofluorometer – FP-8300 (JASCO)
- ▶ Spectroelectro Chemical Work Station (CHI620E)
- ▶ Electromagnet 11k Gauss
- ▶ LED Fluorimeter S1177
- ▶ Potentiometer Titrator HI902C1-02
- ▶ Gel Documentation Unit LARK
- ▶ Double Distillation Unit BOROSIL
- ▶ LED Binocular Compound Microscope
- ▶ Server Workstation for Computational Studies
- ▶ Rotary Vacuum Evaporator

Equipment Facilities

- ▶ Amsterdam Density Functional Modeling Suite Powerful computational chemistry Software for Chemistry & materials
- ▶ Hyperquad&Hyspec Software
- ▶ Gaussian 09 Software Solutions

Chemistry Laboratory

The Chemistry Laboratory has cutting-edge experimental and computational facilities that provide students interested in chemistry, engineering, and environmental sciences with research opportunities, tools, and technical support. For first-year students, Engineering Chemistry and Environmental Science courses include the following lab practices:

- ▶ Water quality parameter analysis
- ▶ Contaminant analysis using instruments
- ▶ BOD analysis
- ▶ Residual chlorine analysis
- ▶ Metal ion analysis

The laboratory complies with all standards for chemical safety. Third-year and final-year students use the laboratory for project work.

Major Instrumental Equipment

- ▶ Water Analysis Kit
- ▶ pH Meter
- ▶ Conductivity Meter
- ▶ Turbidity Meter
- ▶ BOD Incubator
- ▶ Flame Photometer
- ▶ Spectrophotometer
- ▶ Digital Ultrasonic Cleaner
- ▶ Digital Orbital Shaker
- ▶ LCD Digital Hot Plate with Stirrer
- ▶ Electrical Hot-Air Oven

Physics Laboratory

The Department of Physics, approved as a recognized Research Centre for Ph.D. programmes by Anna University, offers research opportunities in the areas of Nanoscience, Thin Films, Quantum Computation, and Digital Signal Processing. The Physics Laboratory provides hands-on learning experiences for students to explore and apply fundamental concepts in physics. Our laboratory allows students to engage in real-world experiments and research projects. For first-year students, Engineering Physics courses include the following laboratory practices:

- ▶ Determination of Young's Modulus for various materials using bending experiments
- ▶ Measurement of Thermal Conductivity of various bad conductors
- ▶ Study of V-I Characteristics of semiconductor diodes (PN junction, Zener, and LED)
- ▶ Hands-on interfacing and testing of digital electronic circuits
- ▶ Development of mini electronic projects using Arduino boards

In addition, the Electronics Innovation Hub is a 10-week hands-on training program for first-year ECE and EEE students. The initiative provides practical exposure to basic electronics and enhances technical, problem-solving, and innovation skills through experiential learning.

Equipment Facilities

- ▶ Ultrasonic Sonicator Bath
- ▶ Planck's Constant Kit
- ▶ Ultrasonic Interferometer
- ▶ Lee's Disc Apparatus
- ▶ Spectrometer
- ▶ Travelling Microscope
- ▶ Torsion Pendulum
- ▶ Compound Pendulum
- ▶ He-Ne Laser
- ▶ Logic Gate Verification Kit

English Language Laboratory

The English Language Laboratory facilitates students in enhancing their English language skills. Our laboratory is equipped with air-conditioned, high-performance systems. The laboratory helps professionals prepare for the Linguaskill Examination, IELTS, and TOEFL with the assistance of faculty members. Our faculty members prepare professionals for placement and incorporate soft skills training through Soft Skill Trainer. We are also an authorized centre for conducting the Linguaskill Examination offered by Cambridge University.

For students, the English Language Laboratory provides training in the following areas:

- ▶ Listening skills
- ▶ Speaking skills
- ▶ Reading skills
- ▶ Writing skills
- ▶ Communication and presentation skills

Software Facilities

- ▶ Orel Talk
- ▶ Clarity

Faculty List

Teaching [Chemistry]

Name of the Faculty	Qualification	Designation
Dr.M.A.Neelakantan	M.Sc.,M.Phil.,B.Ed.,Ph.D.,	Professor & Head
Dr.S.Thalamuthu	M.Sc.,M.Phil.,Ph.D.,	Professor
Dr.E.Ramachandran	M.Sc., Ph.D.,	Associate Professor

Dr.B.Annaraj	M.Sc.,M.Phil.,Ph.D.,	Associate Professor
Dr.S. Chithirai Kumar	M.Sc.,M.Phil.,Ph.D.,	Assistant Professor (SG)
Mr.J. Thamba	M.Sc.,M.Phil.,	Assistant Professor
Dr.B.Rajkumar	M.Sc.,M.Phil.,Ph.D.,	Assistant Professor
Dr.B.Tharmalingam	M.Sc., Ph.D	Assistant Professor

Teaching [Mathematics]

Dr.S.Alwarsamy	M.Sc.,M.Phil.,Ph.D.,	Professor
Dr.S. Geetha	M.Sc.,M.Phil.,B.Ed.,Ph.D.,	Associate Professor
Dr.M.Annapoopathi	M.Sc.,M.Phil.,Ph.D.,	Assistant Professor (SG)
Ms.S.S.Basitha Parveen	M.Sc.,M.Phil.,	Assistant Professor (SG)
Mr.S.Sivabalan	M.Sc.,M.Phil.,SET	Assistant Professor
Mr.P.Ganapathy	M.Sc.,M.Phil.,	Assistant Professor
Dr.R.Vanalakshmi	M.Sc. M.Phil.,B.Ed.,Ph.D.,	Assistant Professor
Mr.M.Sankaranarayan	M.Sc.,M.Phil.,	Assistant Professor
Mr.G.Suthakaran	M.Sc	Assistant Professor
Ms.V.Vinisha	M.Sc.,	Assistant Professor
Ms.K.Salai Aranganayaki	M.Sc.,M.Phil.,SET	Assistant Professor
Dr.S.Padmashini	M.Sc. M.Phil.,B.Ed.,Ph.D.,	Assistant Professor

Teaching [Physics]		
Dr.A.Panimaya Valan Rakkini	M.Sc.,M.Phil.,Ph.D.,	Assistant Professor (SG)
Dr.V.Ramasubbu	M.Sc.,M.Phil.,Ph.D.,	Assistant Professor (SG)
Dr.M.Aravind	M.Sc.,Ph.D.,	Assistant Professor (SG)
Dr.M.Prabhu	M.Sc.,Ph.D.,	Assistant Professor (SG)
Dr.L.JegansonDurai	M.Sc., M.Phil., Ph.D	Assistant Professor

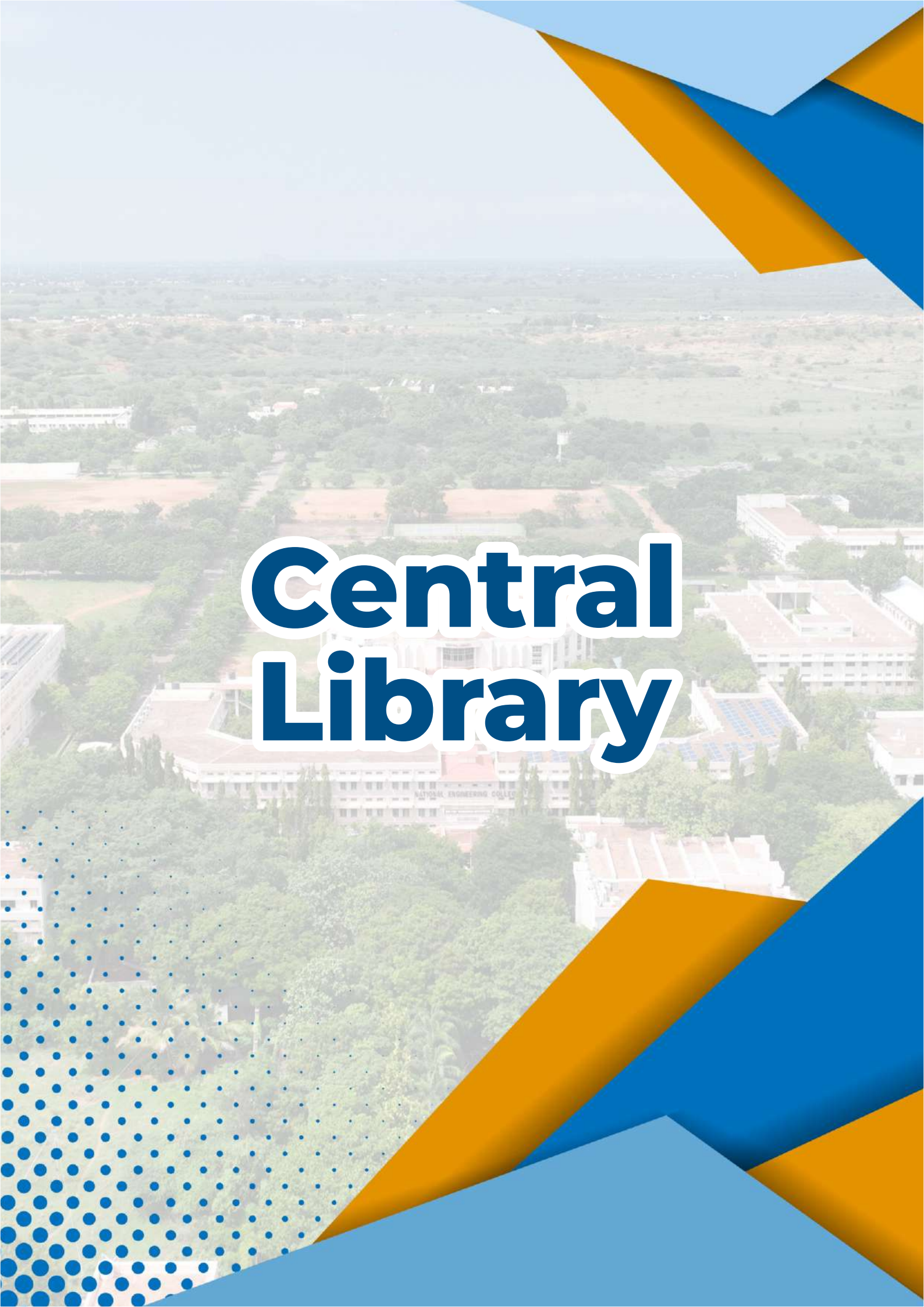
Teaching [English]		
Dr.K.Latha	M.A., M.Phil, B.Ed.,Ph.D	Assistant Professor (SG)
Dr.S.Maheshwari	M.A.,M.Phil.,Ph.D.,	Assistant Professor (SG)
Ms.S.Gopiga Devi	M.A.,	Assistant Professor
Ms.B.Revathe	M.A.,NET	Assistant Professor
Mr.S.Karthik	M.A.,	Assistant Professor
Ms.C.K.Amuthal Salomi	M.A.,NET	Assistant Professor

Teaching [Tamil]		
Dr.S.Chithra	M.A.,M.Phil,SET, Ph.D	Assistant Professor

Soft Skill Trainer		
Ms Jeba S	M.A.,MBA.,	Soft Skill Trainer

Adjunct Faculty		
Mr.R.Murali Dharan		Professor of Practice

Non Teaching Staff		
Mr.C.Maharaja	B.Sc.,	Lab Technician
Ms.S.Renukadevi	B.Com.,	Lab Assistant
Ms.A.Vijayarani	B.Com.,	Department Assistant
Mr.R.Krishnamoorthy	D.C.E., B.Sc.,	Designer



Central Library

Central Library:

The Central Library serves as the intellectual hub of the institution, supporting the teaching, learning, and research needs of students, faculty members, and researchers. Equipped with modern technologies and a web-based Integrated Library Management System (ILMS), the library offers fully automated services, including e-Gate access, circulation, and Web OPAC. It houses a rich collection of books, journals, reference materials, newspapers, magazines, and digital resources across various disciplines.

Housed in a spacious, air-conditioned building with high-speed Wi-Fi connectivity, the library provides a comfortable environment for reading, study, and research. The Open Access System enables users to browse resources freely, while departmental libraries further enhance access to learning materials. The library also promotes reading and research culture through orientation programmes, workshops, book exhibitions, and activities conducted under the Central Library Readers Park.

With its modern infrastructure, user-centric services, and continuously expanding resources, the Central Library plays a vital role in fostering academic excellence, innovation, and lifelong learning within the NEC community.

About Central Library:

The Central Library at NEC serves as a vibrant hub of knowledge, with dedicated sections that support emerging technologies, interdisciplinary learning, and overall academic development. These carefully curated areas aim to enhance user engagement, foster innovation, and promote continuous learning:

- ▶ **Book Stocking Section:** Contains a comprehensive collection of textbooks and reference materials, including those prescribed in the curriculum and other exam preparation resources.
- ▶ **Reference Section:** A collection of reference materials including dictionaries, encyclopedias, directories, competitive exam guides, standards, manuals, handbooks, proceedings, and University/Autonomous question paper booklets.
- ▶ **General Studies Section:** Books for competitive exam preparation, including GATE, GRE, GMAT, UPSC as well as general knowledge, current affairs, and personality development resources.
- ▶ **Interdisciplinary Studies Section:** Books integrating concepts across various disciplines such as Educational Psychology, Indian Art and Culture, Geography and world history.

- ▶ **Career Development Corner:** Provides books on job interview preparation, career planning, skill development, leadership, entrepreneurship, soft skills, innovation management, business strategies, success stories, start-up guides and industry trends.
- ▶ **Exclusive & Valuable Book Circle:** The Circle consists of a curated collection of rare, high-value and unique books for reference and inspiration.
- ▶ **New Arrivals:** Showcases the latest additions to the library's collection.
- ▶ **Library Wall of Knowledge:** Highlights innovative and trending topics, popular titles and motivational quotes that inspire and engage users.
- ▶ **E-Library:** Equipped with computer systems to provide access to online journals, e-books and databases, supporting e-learning and research activities.
- ▶ **A.V.Hall (Audio & Video Hall):** A dedicated venue for hosting Readers Park Activities, NPTEL programs, spoken tutorial workshops, seminars, conferences, and viva voce exams, utilizing audio-visual aids effectively.
- ▶ **Periodical Section:** Provides access to peer-reviewed national journals and technical magazines in printed format, supporting current awareness and subject-specific reading.
- ▶ The **Circulation Section** is fully computerized, bar-coded circulation service making the process of issuing, returning and renewing of library documents efficient and streamlined.
- ▶ Back issues of journals are bound every year and kept in the **back volume section** for reference purpose. Back volumes can also be borrowed by the users.
- ▶ **Web OPAC:** The Web Online Public Access Catalogue enables users to search for available library resources, including books, journals, question bank, CDs/DVDs, back volumes and project reports conveniently online.
- ▶ The Central library provides **reprography** and **printing facilities** for users.
- ▶ **Book Bank Section** caters to the needs of students who avail the post-metric scholarship offered by the Government of India. The eligible students can borrow six books at a time. The books are issued for a period of one semester and are to be returned at the end of the semester.

Library Collections:

Library Collections	Titles	Volumes
Book	31495	63211
Reference Books	1056	1126
Book Bank Books	693	3319
Student's Projects (Since 2004)		6682
Back Volumes (Since 1993)		3764
Book's & Periodical's Cds		3372
Dailies		19
Periodicals:		
Technical Magazines		26
E – Resources:		
E - Journals	IEEE (ASPP)	208
	Elsevier ScienceDirect (E + CS + Maths)	350
E – Books	EBSCO Core Engineering E-Books	7642

Library Timing:

The Central Library is kept open throughout the year except for Government Holidays:

Weekdays : 08.30 a.m. to 07.30 p.m.

Sundays : 09.30 a.m. to 01.00 p.m.

Borrowing Facilities

U G Students	:	6 Books + 1 CD - 15 days
P G Students	:	6 Books + 2 CD - 15 days
Research Scholars	:	6 Books + 2 CD - 15 days
H.O.Ds.	:	10 Books + 2 CD - 15 days
Teaching Staff	:	6 Books + 2 CD - 15 days
Non-Teaching Staff	:	2 Books - 15 days

Library Space:

Carpet Area of Library	:	3911 sq. m.
Reading Space	:	720 sq. m.
Number of seats in reading space	:	222 seats

E - Learning Management System (e-LMS):

E-Learning encompasses research, learning and teaching in a digital environment, offering students access to online courses complete with instructional materials, instructors' notes, course topics and discussion forums.

The E-Learning Management System (E-LMS) provides federated search for Science Direct and IEEE online journals, NPTEL videos, open-source e-books, e-questionbanks and more.

E - Learning Management System (e-LMS):

A sufficient number of systems are available in the e-Library section with internet access for accessing e-resources. Users can utilize these resources for educational, research, and development purposes. Non-book materials such as CDs, DVDs, textbook tutorial CDs, and periodical CDs are also available in the library.

E - Resources:

- ▶ **IEEE (ASPP) Online Journals:** Renewed IEEE (ASPP) core collection of Engineering, Electronics and Computer Science online journals available at: <https://ieeexplore.ieee.org>
- ▶ **Elsevier ScienceDirect Online Journals:** Renewed Elsevier ScienceDirect Engineering, Computer Science and Mathematics online journals. <https://www.sciencedirect.com/>
- ▶ **EBSCO Engineering Core E-Books:** Renewed the EBSCO Engineering Core Collections of e-Books available at <https://research.ebsco.com>

Remote Access:

The INDIAN Access Management Federation (INFED), INFLIBNET Centre, Gandhi Nagar, Gujarat, provides seamless access to e-resources for users, enabling access from anywhere, anytime. Users can access multiple e-resources within a federated single sign-on framework through <https://idp.nec.edu.in/>

Institutional Memberships:

Institutional memberships with **DELNET, NDLI Club and e-Shodh Sindhu**

- ▶ All staff members and students of NEC are members of the Central Library.
- ▶ Users must scan their ID cards at the Gate Entry System to record their entry and exit.
- ▶ Books should be returned on or before the due date.
- ▶ If a member loses a book, he/she must replace it with the latest edition and pay the applicable overdue charges.

- ▶ If a book is not returned, the member shall pay three times the cost of the book.
- ▶ Members are required to deposit their bags and personal belongings at the Property Counter before entering the library.
- ▶ Members must produce their Smart ID Card/Barcoded Library Membership Card to the security personnel or library staff whenever requested.
- ▶ Personal books, bags, and other belongings are not permitted inside the library, except with prior permission.
- ▶ Strict silence must be maintained within the library premises.
- ▶ After use, books should be left on the reading tables and should not be re-shelved by users.
- ▶ Books will be issued to students for a period of 15 days, including holidays.
- ▶ Final-year students must return all borrowed books and clear their library dues to obtain a No Dues Certificate.
- ▶ An overdue charge of Rs. 1/- per day will be levied for books returned after the due date.
- ▶ Books may be returned on any working day. Absence from classes shall not be accepted as a reason for delayed return.
- ▶ Library books must be handled with utmost care and returned in good condition.
- ▶ Damaged books will not be accepted and must be replaced with a new copy of the same or latest edition.
- ▶ The library premises are under continuous surveillance through CCTV cameras.
- ▶ Laptops are permitted inside the library for academic and reference purposes.
- ▶ Underlining, marking, scribbling, tearing pages, damaging books/journals, or misuse of library computers is strictly prohibited and may result in disciplinary action.
- ▶ Mobile phones must be kept in silent mode inside the library premises.
- ▶ Consumption of food and beverages is strictly prohibited inside the library.
- ▶ Any book or journal taken out of the library without proper issue/entry will be treated as a serious violation and appropriate action will be taken.
- ▶ The competent authority reserves the right to take disciplinary action against any user who violates the library rules and regulations.

Self-Learning & Extension Services:

Self-learning can be challenging, even for highly motivated students, as it requires discipline, critical thinking, and effective study strategies. The Central Library supports self-learning by providing access to a wide range of e-resources, study materials, digital tools, and online learning platforms. In addition, the library offers extension services through workshops, seminars, training programmes, and tutorial sessions designed to enhance the learning, research, and professional skills of students and faculty members.

These activities are organized through the **Central Library Readers Park**, which promotes continuous learning, knowledge sharing, and personal development. The Readers Park provides students with opportunities to broaden their perspectives and develop lifelong learning habits.

Central Library Readers Park:

Reading is a creative, enriching, and intellectually stimulating activity. Through reading, individuals can experience different cultures, societies, perspectives and periods of history. Every book opens the door to a new world of knowledge and imagination. To cultivate reading habits and support the holistic development of students, the **NEC Central Library Readers Park** was established in 2016. The primary objective of the Readers Park is to encourage students to read beyond the curriculum, develop a positive outlook, enhance communication skills, and increase the effective utilization of library resources.

Convener: **Dr.K.Karunai Raghavan**, Librarian

Quality Improvement Cell (QIC):

The NEC Central Library established the **Quality Improvement Cell (QIC)** in accordance with the guidelines of Anna University, Chennai. Since 2014, the QIC has been actively promoting quality enhancement in teaching and learning by creating awareness and facilitating participation in various educational initiatives. Through the QIC, faculty members and students are encouraged to utilize learning resources and certification programmes such as SWAYAM-NPTEL, Spoken Tutorial FOSS Courses, and other online learning platforms. These initiatives contribute significantly to academic excellence and professional development.

SWAYAM NPTEL, IIT Madras:

The NPTEL, jointly developed by the IITs and IISc, offers a wide range of online courses in Engineering, Science, Humanities, Management, and other disciplines. These courses are available through the SWAYAM platform and the NPTEL portal. Since 2014, NPTEL has been offering online certification programmes that enable learners to gain knowledge from renowned faculty members of the IITs and IISc. Upon successful completion of the proctored examination, participants receive certificates from NPTEL, IIT Madras.

SWAYAM NPTEL Local Chapter @ NEC:

NEC has established a SWAYAM-NPTEL Local Chapter in association with IIT Madras. The Local Chapter serves as a platform to promote awareness and participation in NPTEL online certification courses among students and faculty members. Through this initiative, the institution encourages continuous learning, skill development, and academic enrichment by facilitating enrollment, mentoring, and participation in various NPTEL courses.

SWAYAM-NPTEL Online Certification Courses:

The NEC SWAYAM-NPTEL Local Chapter actively motivates and supports students and faculty members to enroll in online certification courses offered by the IITs and IISc through NPTEL. These courses provide opportunities for credit transfer, skill enhancement, professional development, and lifelong learning.

FOSS Courses, Spoken Tutorial EduPyramids, IIT Bombay:

The Spoken Tutorial Project is an initiative of the National Mission on Education through Information and Communication Technology (NMEICT), Ministry of Education, Government of India, developed by IIT Bombay. The project aims to promote Information Technology literacy through Free and Open Source Software (FOSS) using audio-visual tutorials known as Spoken Tutorials. These self-learning resources enable learners to acquire practical skills in various software applications at their own pace.

National Engineering College has been actively associated with the Spoken Tutorial Project EduPyramid since 2014 and has been regularly conducting training programmes and online certification examinations for students.

Library Team		
Faculty Name	Qualification	Designation
Dr.K.Karunai Raghavan	M.Com., M.L.I.Sc., M.Phil.(LIS)., PGDCA., Ph.D.,	Librarian
Mr.T.Rajan	B.A., M.L.I.Sc., M.Phil.,	Assistant Librarian
Ms.P.Pandi Rani	M.A., M.L.I.Sc., M.Phil (LIS).,	Assistant Librarian
Mr.A.Jenifer Prinston	B.Com., M.L.I.Sc.	Library Assistant
Mr.L.Pathirakaliappan	B.Com.,	Assistant
Ms.G.Mathukeerthana	B.Sc.,	Assistant
Ms.L.Rama Lakshmi	B.Com.,	Assistant



K.R. Innovation Centre

K.R. Innovation Centre

The K.R. Innovation Centre, established under Section 8 of the Companies Act, 2013, operates as a Special Purpose Vehicle (SPV) affiliated with National Engineering College, Kovilpatti. It serves as an overarching entity that integrates the Entrepreneurship Development Cell, NewGen Innovation and Entrepreneurship Development Centre, MSME approved Business Incubator, and Institution Innovation Cell. This integration aims to foster a culture of innovation and entrepreneurship among young individuals. Recently, with funding support from the NIDHI Scheme of the Department of Science and Technology (DST), Government of India, the center proudly launched a dedicated Inclusive Technology Business Incubator (iTBI). This incubator aims to foster the growth of innovative startups focused on the Circular Economy.

Our incubation and pre-incubation units are meticulously crafted to support startups by providing cutting-edge technical facilities. These resources facilitate the transformation of technological and business innovations into commercially viable products, preparing them for a successful market launch.

Chief Executive Officer:	Dr.G.Vinoth
Coordinator:	Dr.I.Sankar, Asso. Prof/Mech
Co-coordinator:	Dr.T.Sakthi, Asst. Prof.(SG)/Humn.

Members:		
SPOC Coordinator	Dr.M.Kathiresan	Prof./Mech
SPOC Co-Coordinator	Dr.T.Sakthi	AP (SG)/Hum
SPOC for ECE	Mr.T.Devakumar	AP(SG)/ ECE
SPOC for Mech	Dr.A.Andrews	AP(SG)/Mech
SPOC for EEE	Dr.B.Venkatasamy	AP(SG)/EEE
SPOC for AI&DS	Dr.J.Naskath	Asso.Prof./AI&DS
SPOC for Civil	Mr.K.Marimuthu	AP/Civil
SPOC for CSE	Mr.J.Karthikeyan	AP(SG)/CSE
SPOC for IT	Ms.M.Manimegalai	AP(SG)/IT

Websites:	www.necincubator.org	www.necitbi.org
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Highlight of Achievements

- ▶ NEC is ranked in the band of 101-151 among higher educational institutions in NIRF – Innovation Ranking 2023 (ARIIA).
- ▶ Innovation Cell, Ministry of Education, Govt. of India has rated Institute Innovation Council (IIC), of National Engineering College with 4 Star rating for undertaking various activities.
- ▶ K.R. Innovation Centre has been recognized as one of the Scale-Up Incubators of Startup TN by the Startup TN, Tamilnadu with the funding support of Rs. 5 Lakhs.

Fund Sanctioned by Government Agencies

- ▶ National Engineering College has been recommended by the National Expert Advisory Committee (NEAC) to establish i-TBI, under NIDHI i-TBI program by DST, with the funding support of Rs. 488.16/- lakhs
- ▶ Received funding of ₹9 lakhs in the MSME Idea Hackathon 1.0, ₹31.75 lakhs in the MSME Idea Hackathon 2.0, and ₹39.2 lakhs in the MSME Idea Hackathon 3.0 for product development.
- ▶ Received fund of Rs. 5 lakhs from Ministry of Education's Innovation Cell for product development.
- ▶ Organized a four-week Technology-Based Entrepreneurship Development Online Programme on Internet of Things for Healthcare, Agriculture, Smart City, Smart Home, Supply Chain and Smart Vehicle Applications from June 5th, 2023 to June 30th, 2023 with funding support of Rs.1.6 lakhs by Department of Science and Technology, New Delhi.



Alumni Association

Alumni Association

Highlights

- ▶ The alumni chamber has been established on the campus, featuring a state of the art audio / video conference facility that can accommodate 200 people.
- ▶ Alumni have the ability to interact with current students and faculty members and share their experiences.
- ▶ Students can access cutting edge technology through seminars, webinars, technical clubs, mentorships, and the latest developments in the industry.
- ▶ Silver Jubilee Reunion is organized every year.
- ▶ It provides financial support for creative projects and scholarships to deserving students.
- ▶ The association offers employment prospects via our alumni.
- ▶ All members can access the web portal to learn about job openings and registrations made on behalf of the Alumni Association.

COORDINATOR	Dr.K.G.Srinivasagan	Prof.&Head/IT & Dean(IR)
ASSOCIATE COORDINATORS	Dr.D.Vigneshkumar	Associate Professor/MECH
	Dr.S.Sankarakumar	Associate Professor/EEE

ALUMNI COUNCIL

COORDINATOR	Ms.V.Anitha	AP/IT
ALUMNI CLUBS	1. Auto Club	2. Entrepreneur Club
	3. Electronics Club	4. AI Club
MEMBERS	Dr.P.Samuel Pakianathan	AP(SG)/EEE
	Ms.M.Kanthimathi	AP/CSE
	Ms.R.Harshani	AP/CIVIL
	Ms.P.Rampriya	AP/AI&DS
	Ms.S.Malathi	AP/ECE

Alumni office support

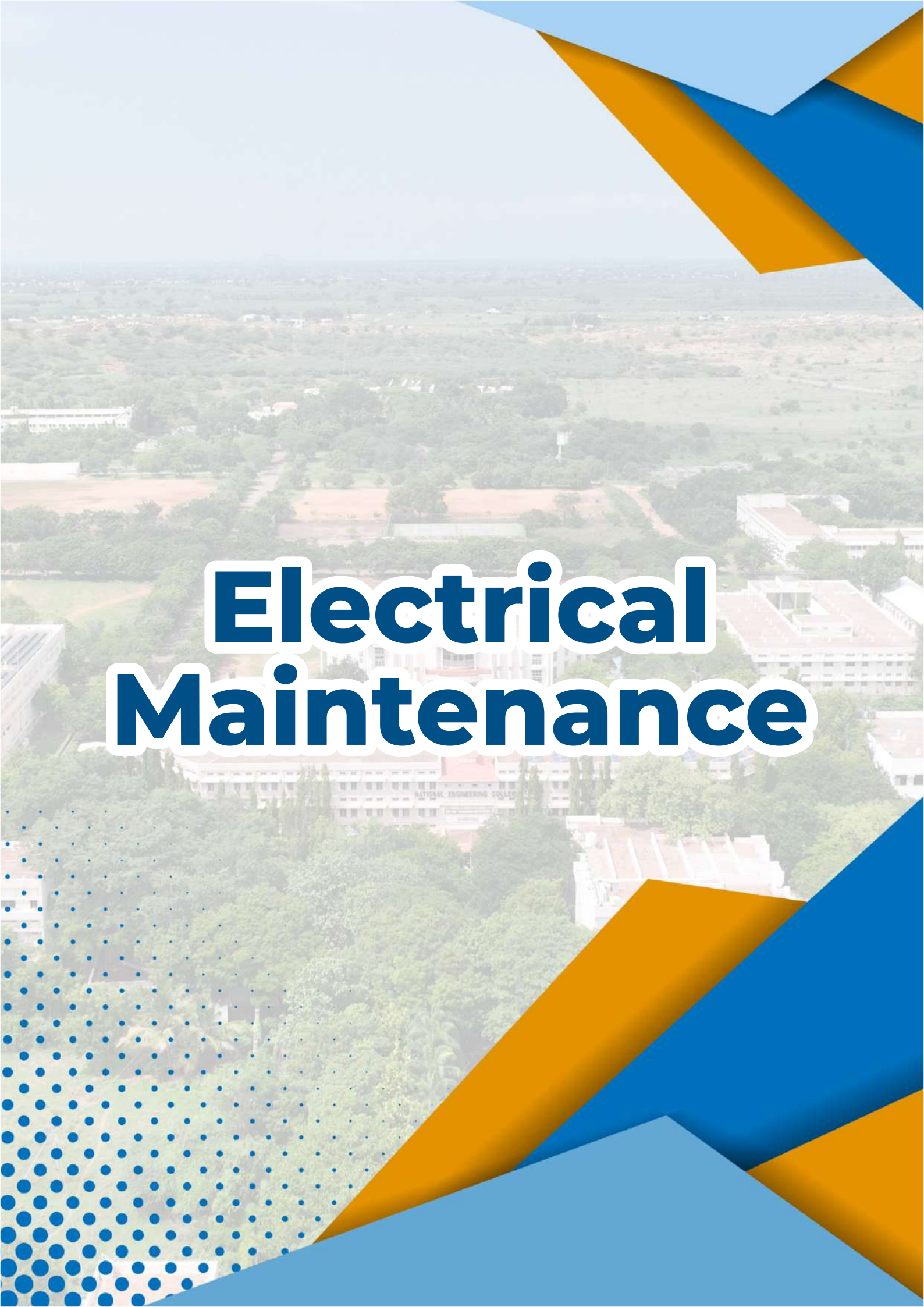
Ms.P.Sugunadevi	System Programmer
Ms.P.Priyadharshini	Alumni System Admin



NEC AICTE IDEA Lab

Highlights

- ▶ The NEC AICTE IDEA (Idea Development, Evaluation & Application) Lab is established to encourage students to apply STEM (Science, Technology, Engineering, and Mathematics) fundamentals through hands-on experience, experiential learning, and product visualization. These labs aim to foster a culture of innovation, creativity, and entrepreneurship among students and faculty.
- ▶ The IDEA Lab provides a vibrant platform for developing essential 21st-century skills such as critical thinking, problem-solving, and design thinking. It also supports students in product development and prototyping, enabling them to transform ideas into practical solutions.
- ▶ For the establishment of the NEC AICTE IDEA Lab, the All India Council for Technical Education (AICTE) has sanctioned a grant of ₹30 lakhs, which is matched by an equal contribution of ₹30 lakhs from the Management of National Engineering College (NEC), reflecting a strong institutional commitment to innovation and skill development.



Electrical Maintenance

Electrical Maintenance

All technical and maintenance-related activities have been integrated under a single department to ensure innovation, continuous improvement, and the delivery of quality services for academic and administrative functions across the group of institutions. In this regard, the Electrical Maintenance Department has been established to manage, operate, and maintain various infrastructure systems, including Electrical Systems, Networking Servers, Internet and Intranet Facilities, Computer Hardware and Software, Peripherals, Online UPS Systems, EPABX and Intercom Systems, CCTV Surveillance Systems, Air Conditioning Systems, and other related equipment. The department is also responsible for the procurement of equipment, spare parts, and materials required for the installation, operation, and maintenance of the above systems.

Functions and Responsibilities

Electrical System

- ▶ To provide uninterrupted and quality electrical power supply to all buildings and facilities of the institution.
- ▶ To carry out the erection, testing, commissioning, operation, and maintenance of electrical distribution networks, cable networks, transformers, switchgear, panels, and other electrical equipment.
- ▶ To ensure that all electrical installations and systems are maintained in compliance with the statutory regulations and safety standards prescribed by the Chief Electrical Inspector to Government (CEIG).
- ▶ To operate and maintain the captive power generation system, including diesel generator sets and associated equipment, to ensure a reliable backup power supply.
- ▶ To undertake energy conservation initiatives, monitor energy consumption, and implement energy saving measures across the campus.
- ▶ To conduct energy audits, analyze energy utilization patterns, and recommend measures for improving energy efficiency and reducing operational costs.

Renewable Energy

Our institution has taken significant steps towards achieving energy sustainability by implementing rooftop solar power plants across major academic and administrative buildings. With a total installed capacity of 360 kW and an additional ongoing capacity of 90kW, the solar energy systems play a vital role in meeting the campus electricity demand through clean and renewable energy.

The solar installations have been strategically established in the following locations:

- ▶ Science & Humanities (S&H) Block – 50 kW
- ▶ Computer Science & Engineering (CSE) Block –

- ▶ Information Technology (IT) Block – 80 kW
- ▶ Library Building – 90 kW
- ▶ Electrical and Electronics Engineering (EEE) Block – 90 kW
- ▶ Mechanical engineering Block – 90 kW (Under Progress)

By harnessing solar energy, the institution reduces its carbon footprint, lowers electricity costs, and supports environmentally responsible practices. The solar power infrastructure reflects the college's vision of integrating sustainable technologies into campus operations and fostering awareness of renewable energy among students and staff. This initiative reinforces the institution's commitment to creating a greener campus and contributing to a sustainable future through responsible energy management. The installed solar power systems contribute significantly to reducing greenhouse gas emissions and mitigating climate change. By generating electricity from renewable solar energy, the institution avoids a substantial amount of carbon dioxide (CO₂) emissions that would otherwise be produced from conventional grid power.

The environmental benefits of the solar power installations can be expressed in terms of:

- ▶ Equivalent number of trees planted, representing the carbon absorption capacity required to offset the same amount of CO₂ emissions.
- ▶ Annual reduction in CO₂ emissions, achieved through the generation of clean and renewable electricity.
- ▶ Reduction in dependence on fossil-fuel-based energy sources, thereby supporting national and global sustainability goals.

Through these initiatives, the institution continues to strengthen its commitment to environmental stewardship, energy conservation, and the creation of a sustainable and eco-friendly campus.

Server and Networking

- ▶ To configure, monitor, and maintain firewall policies on a continual basis to ensure network security and uninterrupted connectivity across all departments.
- ▶ To administer and maintain servers to meet the day-to-day operational requirements of the institution.
- ▶ To configure, monitor, and maintain 220 Wireless Access Points (WAPs) through the centralized Zone-Director 3000 Wireless Controller, ensuring reliable and secure wireless network access throughout the campus.
- ▶ To provide support, administration, backup, and maintenance for critical servers, including:
 - Web Server
 - Moodle Server
 - ERP Server
 - Domain Server
 - Storage Server

- ▶ To manage and renew Microsoft Campus Agreements and other software licensing subscriptions required for institutional operations.
- ▶ To administer and maintain the campus network infrastructure through a centralized Domain Server, ensuring secure authentication, access control, and efficient network management.
- ▶ To monitor network performance, troubleshoot connectivity issues, and implement upgrades to enhance network reliability, security, and efficiency.
- ▶ To maintain data security, backup systems, and disaster recovery mechanisms for all institutional servers and network services.

Computer Systems, Peripherals, and UPS Systems

- ▶ To undertake the purchase, installation, and maintenance of computer hardware, system software, and peripherals such as printers, scanners, photocopiers, and other office automation equipment.
- ▶ To carry out preventive maintenance and troubleshooting of computer systems and peripheral devices.
- ▶ To operate and maintain Online and maintenance of Online UPS systems and associated hardware.
- ▶ To ensure uninterrupted power supply for all computer-based activities in laboratories, offices, and other academic facilities, a total UPS capacity of 513 kVA has been installed and is being regularly maintained.
- ▶ To perform software installation, system updates, antivirus management, and hardware health monitoring.
- ▶ To provide technical support and user assistance for computer-related issues.
- ▶ To manage inventory management, procurement, replacement, and disposal of computer equipment.

Internet Facility

- ▶ To provide 24×7 high-speed internet connectivity to academic blocks, administrative offices, libraries, laboratories, and hostels.
- ▶ To manage and maintain ICT infrastructure and maintenance of ICT infrastructure, including rack servers, storage servers, firewalls, routers, switches, wireless controllers, and access points.
- ▶ To administer internet of internet bandwidth through:
 - 450 Mbps Airtel (1:1) Leased Line
 - 300 Mbps Reliance (1:1) Leased Line
- ▶ To continuously monitor monitoring of network traffic, security, and internet usage.
- ▶ To maintain of fiber-optic campus networking connecting all departments and facilities.
- ▶ To ensure uninterrupted internet services through UPS-backed network infrastructure with extended power backup.

Wi-Fi Campus

- ▶ To provide campus-wide Wi-Fi connectivity through 220 dual-band wireless access points managed by a centralized wireless controller.
- ▶ To extend Wi-Fi coverage to classrooms, laboratories, libraries, administrative offices, common areas, and hostels.
- ▶ To provide Secure and reliable internet access for students, faculty, and staff throughout the campus.
- ▶ To implement web access control and internet usage monitoring to ensure safe and productive use of network resources.

Intercom, PA System, and CCTV Maintenance

- ▶ To continuously update and introduce the latest technologies to enhance and support the teaching and learning process.
- ▶ To establish, operate, and maintain EPABX exchange and intercom networks.
- ▶ To install and maintain Public Address (PA) systems across the campus.
- ▶ To operate, monitor, and maintain CCTV surveillance systems and networks.
- ▶ To undertake troubleshooting, repair, and upgrading of communication and security systems.

Air-conditioning system

- ▶ To design and install new air-conditioning systems.
- ▶ To operate and maintain all types of air-conditioning units across the campus.
- ▶ To carryout preventive maintenance and timely repair of air-conditioning equipment.
- ▶ To monitor and improve the energy efficiency of air-conditioning systems.
- ▶ To procure air-conditioning equipment, spare parts, and maintenance materials.
- ▶ To ensure safe and reliable operation of all air-conditioning systems.

FACULTY LIST		
Faculty Name	Qualification	Designation
Mr.R.Purushothaman	B.E., M.I.E., L.L.B.,	Sr. Executive

Internet, Servers, Computer Systems, Peripherals & UPS		
Mr.G.Mariappan	M.C.A., M.Tech.,	System Analyst
Mr.G.Ganapathy	B.E.,	Asst. Engineer

Electrical - Power System		
Mr.M.Ramesh	D.E.E.E.,	Electrical Supervisor
Mr.M.Petchiappan @ Babu	D.E.E.E.,	Electrician
Mr.K.Subburaj	ITI	Lab. Assistant
Mr.M.Ayyasamy	ITI	Electrician
Mr.P.Muthukumar	ITI	Electrician
Mr.V.Udhayakumar	D.E.E.E.,	Electrician
Mr.T.Manmathan	ITI	Electrician
Mr.M.Selvamaharajan	ITI	Electrician
Mr.D.R.Nanthakumar	M.A.	Assistant
Mr.S.Subhas Chandra Boss	-	Electrician

Intercom, PA Systems & CCTV		
Mr.C.Velayutharajan	ITI	Tradesman

AC Systems		
Mr.B. Muthukumar	ITI	AC Mechanic



Mechanical Maintenance

Mechanical Maintenance

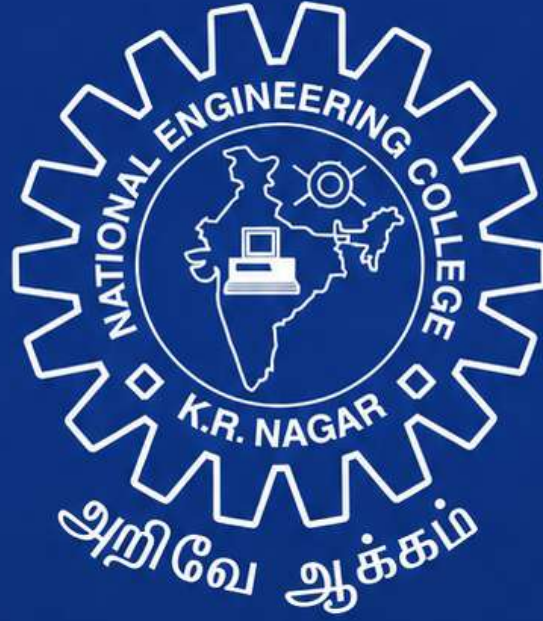
The Mechanical Maintenance Department of our college plays a vital role in ensuring the smooth operation, safety, and sustainability of the institution by maintaining essential infrastructure and utility services across the campus. The department is committed to providing a safe, clean, and well-maintained environment that supports effective teaching, learning, and residential life.

Key Functions and Responsibilities

- ▶ **Estate Office – Sanitation and Housekeeping:** Oversees campus sanitation and housekeeping activities to maintain a clean, hygienic, and pleasant environment throughout the college premises.
- ▶ **RO Systems:** Operates and maintains Reverse Osmosis (RO) water purification systems to ensure the uninterrupted supply of safe and clean drinking water for students, faculty, and staff.
- ▶ **Furniture Management:** Handles the procurement, installation, repair, and maintenance of classroom, laboratory, office, and hostel furniture to ensure comfort and functionality.
- ▶ **Fire and Safety:** Procures, installs, inspects, and maintains fire safety equipment, ensuring compliance with safety standards and enhancing campus preparedness for emergencies.
- ▶ **Water Management and Plumbing:** Manages the water supply network and plumbing systems across the academic blocks, administrative buildings, and hostels, ensuring continuous and efficient water distribution.
- ▶ **Sewage Treatment System:** Operates and maintains the campus Sewage Treatment Plant (STP) with a capacity of 150 KLD (Kilo Litres per Day), supporting effective wastewater treatment and environmentally responsible water management.
- ▶ **Gardening and Landscaping:** Maintains the campus greenery through systematic care of trees, lawns, gardens, and landscaped areas, contributing to an eco-friendly and aesthetically appealing environment.
- ▶ **Utility Vehicles:** Oversees the operation and maintenance of utility vehicles, including tractors, water tankers, JCBs, and Tata Ace vehicles, ensuring efficient support for maintenance, transportation, and infrastructure-related activities across the campus.

FACULTY LIST
Titles

Faculty Name	Designation
Mr.R.Ramakrishnan	Maintenance Engineer
Mr.A.Alaguramalingam	Garden Supervisor
Mr.M.Gurusamy	Plumber
Mr.V.Nageswaran	Estate Supervisor
Mr.V.Murugesan	Furniture Assistant
Mr.S.Srishesadri	Technician
Mr.P.Shenbagaraj	Tractor Driver
Mr.K.Chinna Madasamy	Tractor Driver
Mr.S.Gunasekaran	Tanker Driver
Mr.R.Ramamoorthy	Tata Ace Driver
Mr.M.Mathan Raj	Jcb Driver



— Estd : 1984 —

K.R.
Innovation
Centre

DST-ITBI

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2024

Engineering
Band
151-200

NBA
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ACCREDITATION

Tier - 1

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ACCREDITATION COUNCIL

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INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD, Government of India)

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