

Gnanamani College of Technology

(AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

NH-7, A.K. Samuthiram, Pachal – 637018, Namakkal (Dt.), Tamilnadu, India.

Web : www.gct.org.in, E-Mail : info@gct.org.in, Contact No. 7598293888, 7598293999



CETA TIMES



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NEWS LETTER

To serve as a dynamic platform for sharing academic achievements, innovative research, technological advancements, student and faculty accomplishments, departmental events, and industry trends. It aims to foster communication, collaboration, and a sense of community among students, faculty, alumni, and industry partners, while promoting a culture of knowledge sharing, innovation, and continuous learning within the department.

INSIDE THE ISSUES

- Achievements/Awards/Honours
- Paper Publication in Journal
- Paper Publication in Conference
- FDP/Seminars/Workshops Attended
- Organized Events
- Paper /Project Presentations

Editorial Board:

Dr.R.Umamaheswari HoD/CSE

Mrs.P.Sathyasutha AP/CSE

Mr.G.Sivakumar AP/CSE

Students Coordinators:

Ajay L, Final year

Mr. MD Arshal Raza, Third year

Volume 11 | Issue 1 | 2023-2024

COMPUTER SCIENCE AND ENGINEERING

The program is dedicated to advancing education and research in the Computer Science and Engineering field through partnerships with industries. Research is actively conducted in areas including Distributed Computing, Service-Oriented Architecture, Networking, Computer Technologies, Programming Languages, Database Management, Software Engineering, Operating Systems, Image Processing, Information Retrieval, Storage Management, Data Warehousing and Mining, Big Data Analytics, Cloud Computing, and Computational Intelligence.

Students and faculty are also given excellent opportunities to join various professional organizations such as IEEE and CSI. The program is supported by well-equipped laboratories and a comprehensive library filled with the latest and highest quality books, journals, and magazines.

Additionally, the program encourages students to engage in research, which makes them highly desirable to leading IT firms in India. It has developed into a competitive program focused on students, designed to significantly enhance the learning experience through lab sessions, assignments, training, seminars, projects, and independent studies. One of the program's greatest strengths is the strong sense of loyalty that our alumni feel toward it.



GNANAMANI EDUCATIONAL INSTITUTIONS

Gnyanamani Educational Institutions that have carved a niche for itself in the field of engineering education within a very short span of time. Gnanamani College of Technology which was established in the year 2006, the group comprises of Gnanamani College of Education, established in the year 2005.

Gnanodaya CBSE International School was established in the year 2015. These Institutions serve under the aegis of The Christian Educational Development Trust.

Gnyanamani Educational Institutions were established in a well-planned campus with a green environment. The Colleges are spread on a sprawling 60 acres of serene land. The Colleges are easily accessible from all major cities by road and railway networks.

These Institutions have emerged as a pioneer venture in the field of Technical Education. Dr.T.Arangannal – a Rashtria Vidhya Saraswathi Puraskar Awardee is the Chairman and Mrs.P.Malaleena is the Chairperson of the Educational Institutions.

GNANAMANI COLLEGE OF TECHNOLOGY

Gnanamani College of Technology is a leading Institution with state-of-the-art facility. The college is affiliated to Anna University and Autonomous approved by AICTE.

The institution is rendering noble service to the youths in rural and urban areas.

The college is accredited by the NAAC and NBA (CSE, ECE, EEE, and Mechanical). The college has grown in a short span of 17 years with 12 UG Courses namely Agricultural, Artificial Intelligence and Data Science, Bio-Medical, Biotechnology, Chemical, Computer Science, Electrical and Electronics, Electronics and Communication, Food Technology, Mechanical, Information Technology and Pharmaceutical Technology.

The Institute also offers 9 PG courses in Computer Science, Construction Engineering and Management, Environmental Engineering, Embedded System Technology, Power Electronics and Drives, Industrial Engineering, VLSI Design, BME, MBA and MCA.

INSTITUTE VISION

Emerging as a technical institution of high standard and excellence to produce quality Engineers, Researchers, Administrators and Entrepreneurs with ethical and moral values to contribute the sustainable development of the society.

INSTITUTE MISSION

We facilitate our students

- To have in-depth domain knowledge with analytical and practical skills in cutting edge technologies by imparting quality technical education.
- To be industry ready and multi-skilled personalities to transfer technology to industries and rural areas by creating interests among students in Research and Development and Entrepreneurship.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Computer Science and Engineering Department was established in the year 2006 with an intake of 60 students and increased to 180 students. The Department equipped with well qualified and experienced faculty members. The Department has good laboratory facilities with latest and updated versions of the software and 24 hours Wi-Fi enabled Internet facility. The Department conducts periodic workshops, seminars, symposiums and conferences to help the students, research scholars and corporate world to unite in a common place and thereby strengthen the Industry Institution fusion. The Department has a very good placement record and our students have got placed in leading companies like TCS, WIPRO, Tech Mahindra, CTS, IBM, HCL Info systems, etc.

All the laboratories are well equipped with excellent infrastructure and state of the art equipment to explore the technological challenges and to impart the research oriented practices in the field of Computer Science.

VISION

To evolve as a Centre of Excellence to produce the most competent software professionals, researchers, entrepreneurs and academicians with ethical keys in Computer Science and Engineering.

MISSION

- Imparting quality education through latest technologies to prepare Students as software developer and system analyst.
- Inculcating the technological transformations for the sustainable development of society.
- Promoting excellence towards higher education, research, employability and entrepreneurship.

PROGRAM EDUCATIONAL OBJECTIVES

Graduates of Computer Science and Engineering will

- **PEO-1:** Be capable of design by applying the concepts of science, mathematics, engineering fundamentals and computing for the rapid change of society requirements.
- **PEO-2:** Demonstrate ethical keys, effective communication and team skills in their profession and adapt to current trends through lifelong learning.
- **PEO-3:** Be expert in profession, higher education, research and entrepreneurship.

PROGRAM SPECIFIC OUTCOMES

Graduates of the program will be able to

- **PSO-1:** Understand, analyze and develop computer applications in data Mining/ Analytics, Cloud Computing, Networking, Security, etc. to meet the requirements of industry and society.
- **PSO-2:** Enrich the ability to design and develop software and qualify for Employment, Higher studies and Research.

PROGRAM OUTCOMES

Engineering knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems

Problem analysis:

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

Design/development of solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.

Conduct investigations of complex problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.

Modern tool usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The engineer and society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and sustainability:

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

A Individual and team work:

Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication:

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance:

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long learning:

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM ORGANIZED BY OUR DEPARTMENT

The Department of Computer Science and Engineering has organized an Alumni Talk Series on "Vulnerability Management - Cyber Security" on 21.08.2023.



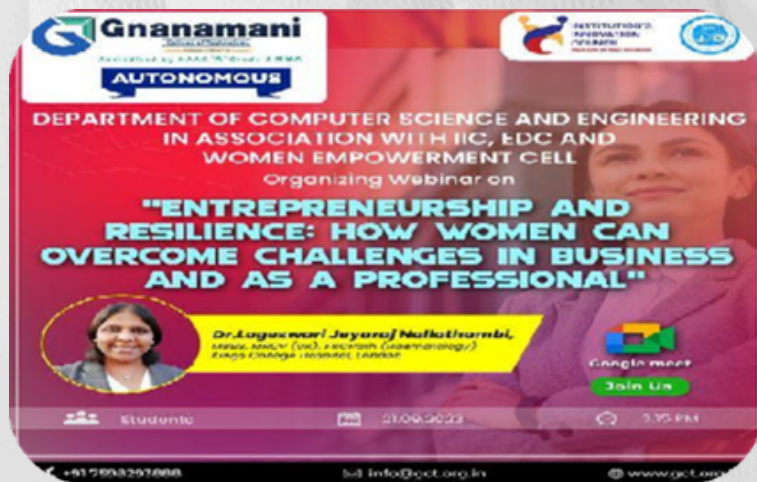
The Department of Computer Science and Engineering in association with IIC and EDC have organized "Startup competition on 24.08.2023 & 2.08.2023

Department of Computer Science and Engineering in association with IIC have organized a workshop on "Innovation and Research Aspects by using ML Algorithms" on 28.08.2023.



CSE

The Department of Computer Science and Engineering has organized a seminar on "IT Career Guidance for Better Jobs in India and Abroad" on 07.09.2023.



The Department of Computer Science and Engineering in association with IIC, EDC and Women Empowerment Cell have organized a webinar on "Entrepreneurship and Resilience: How women can overcome challenges in business and as a professional" on 21.09.2023.

The Department of Computer Science and Engineering, in collaboration with IIC, organized a seminar titled "BLOCKCHAIN AND BEYOND: INNOVATION REDEFINING INDUSTRIES" on 30.09.2023. The chief guest for the event was Mr. A. MOHAMMAD AZARUDDIN from LIVEWIRE, Namakkal, Tamil Nadu.



CSE

Mr. R.M. Selvakumar from CONNECT INFOSYSTEMS, Chennai, Tamil Nadu, attended the event, and Dr. R. Umamaheswari, Head of the Department, honored the gathering. The Department of Computer Science and Engineering, in collaboration with IIC, conducted a workshop titled "Innovative Hardware Technology and Guidance Towards Becoming an Entrepreneur" on October 6 and 9, 2023.



The Association for Computer Science and Engineering (CSE), Artificial Intelligence and Data Science (AI&DS), and Information Technology (IT) on 16.10. 2023. Following this milestone, a one-day seminar titled "Ensuring Quality and Secure Code" was held at Michael Faraday Hall. The distinguished guest speaker for the event was Dr. Rajasekar Velswamy, Associate Professor of Computer Science and Engineering at SRM University, Chennai.

Department of Computer Science and Engineering, Artificial Intelligence and Data Science & Information Technology have jointly organized a National Level Technical Symposium "GNAN WHIZKID-2K23" on 27.10.2023. The Chief Guest was Mr. NANDHAKUMAR VADIVEL, Sales Director (Cyber Security), HCL Technologies, Chennai.



Department of Computer Science and Engineering in association with the IIC conducted the "Idea Competition" on 27.11.2023 & 28.11.2023. Young entrepreneurs with new ideas presented the next level of suggestions for their future entrepreneurship.



Department of Computer Science and Engineering in association with Internal Quality Assurance Cell (IQAC) have organized a National Level Faculty Development Program on "Theory and Application of Symbolic Computing - with Artificial Intelligence Perspective" on 01.12.2023 & 02.12.2023.

The Department of Computer Science and Engineering in association with IQAC and IIC has organized two-day Faculty Development Program on "Research Methodologies - Technical Research Paper Writing" on 02.12.2023



STUDENT ACHIVEMENT

S.No	Date	Name of the Student	Name of the Event	Name of the Title	Institution/ Organization/Society
1	13/10/2023	Harish B	Non Technical Events	Ink and Imagination(I st Prize)	KSR College Of Engineering
2	13/10/2023	MohanRam R	Non Technical Events	Ink and Imagination(II nd Prize)	KSR College Of Engineering
3	19/10/2023	ChrysolYTE P	Paper Presentation	Paper Presentation(I st Prize)	Annai Mathammal Sheela Engineering College
4	4/11/2023	Ganpat Kumar	Paper Presentation	Paper Presentation(I st Prize)	Sasurie College of Engineering
5	24/9/2023	SUBHASHINI S	NPTEL	Database Management System	Online Course
6	24/9/2023	JANANI V	NPTEL	Database Management System	Online Course
7	24/9/2023	SUDHAKAR S	NPTEL	Python For Data Science	Online Course
8	24/9/2023	PRIYANKA P	NPTEL	Python For Data Science	Online Course
9	29/10/2023	AJAY L	NPTEL	Programming in Java	Online Course
10	29/10/2023	MADHUSREE R	NPTEL	Programming in Java	Online Course
11	29/10/2023	SASIKANTH A	NPTEL	Programming in Java	Online Course
12	29/10/2023	VASIKA V	NPTEL	Programming in Java	Online Course
13	29/10/2023	PRIYANKA P	NPTEL	Programming in Java	Online Course

JOURNAL PUBLICATION

S.No	Faculty name	Paper Title	Journal Name Volume No, Month/ Year, Page Nos.	Indexed by Annexure 1/Thompson/ Scopus etc.
1	Mrs.P.Sathyasutha	SIMILARITY AND LOCATION AWARE SCALABLE DEDUPLICATION SYSTEM FOR STORAGE SYSTEMS	[IJIERT] VOLUME 10, ISSUE 7, July -2023	ISSN: 2394-3696
2	Mrs.A.Sangeetha	SIMILARITY AND LOCATION AWARE SCALABLE DEDUPLICATION SYSTEM FOR STORAGE SYSTEMS	[IJIERT] VOLUME 10, ISSUE 7, July -2023	ISSN: 2394-3696
3	Ms.S.Arularasi	SIMILARITY AND LOCATION AWARE SCALABLE DEDUPLICATION SYSTEM FOR STORAGE SYSTEMS	[IJIERT] VOLUME 10, ISSUE 7, July -2023	ISSN: 2394-3696
4	Mrs.G. Kowsalya	SMART PARKING COMMUNITY SUPPORTS PARKING VEHICLE	[IJIERT] VOLUME 10, ISSUE 10, Oct. -2023	ISSN: 2394-3696
5	Ms.S.Arularasi	SMART PARKING COMMUNITY SUPPORTS PARKING VEHICLE	[IJIERT] VOLUME 10, ISSUE 10, Oct. -2023	ISSN: 2394-3696

Details of Books Publication

Faculty name	Department	Title of the Book	Name of the Publisher	Year
Mrs.A.Sangeetha	CSE	Python Programming	Global Aasan Research	2023-2024

Interaction with Outside World

S.No.	Faculty name	Details of the Program	Speaker / Jury / Examiner / Guest Lecturer	Organization/Institution	Date
1	Dr.R.Umamaheswari	Machine Learning Technologies and Innovation	Resource Person	Vinayaka Mission's Research Foundation	22.09.2023
2	Dr.R.Umamaheswari	Symposium	Jury	Mahendra College of Engineering	09.10.2023

CSE
find

“Computing is not about computers anymore; it’s about living.”
— Nicholas Negroponte



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PROGRAM ORGANIZED BY OUR DEPARTMENT

We are happy to inform that the Department of Computer Science and Engineering in association with IIC and ISTE organized a Seminar entitled as “Exploring and Planning Your Career and Entrepreneurship” on 10/02/2024. The chief guest was Mr.K.K.Ajaykumar, representing WELLS FARGO from Bengaluru.

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INSTITUTION'S INNOVATION COUNCIL
(University of West Bengal)

Department of Computer Science and Engineering
In Association with Institution's Innovation Council (IIC)
Organizing Seminar on
EXPLORING AND PLANNING YOUR CAREER AND ENTREPRENEURSHIP

Students
10.02.2024
10.00 AM
Michael Faraday Hall

Mr. Ajay Kumar K K
Lead Software Engineer,
Wells Fargo,
Bengaluru.

+91 7598293888 info@gct.org.in www.gct.org.in



We are happy to inform that the Department of Computer Science and Engineering in association with Women Empowerment Cell organized a Seminar entitled as “World Cancer Day” on 04/02/2024.

The Department of Computer Science and Engineering in association with IIC and WEC conducted an “AWARENESS PROGRAMME ON WOMEN ONCOLOGY” on 08.03.2024. The Guest Speaker was Dr.R.Karthika, MBBS, MD Pathology, DNB, DM Clinical Hematology.



The Department of Computer Science and Engineering in association with IIC and ISTE conducted a seminar on "ROBOTICS, FEATURES AND APPLICATIONS" on 14.03.2024. The Guest Speaker for the programme was Mr.T. Balaji,Village Technology School & Tamil Robotics Club, Founder & CEO, Chennai.



The Department of Computer Science and Engineering, in collaboration with IIC, EDC, and ISTE, hosted a seminar titled "Entrepreneurship in Industrial Automation and Swarm Robotics" on 23.03. 2024. The event featured Mr. K.S. Velayudham from TexVel Inc, Texas, USA, as the guest speaker.

Department of Computer Science and Engineering in association with Institute's Innovation Council organizing a competition entitled "Institutional Innovation Competition" on 23,26&27th February 2024



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College of Technology
Saturny to Great U.K.
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**INSTITUTION'S
INNOVATION
COUNCIL**
(Member of ISTE Institute)

Department of Computer Science and Engineering
In Association with IIC
Organizing

INSTITUTIONAL INNOVATION
COMPETITION

 Students / Faculty

 23.02.2024, 26.02.2024 & 27.02.2024

 10.00 a.m.

 GIMS Seminar Hall

+91 7598293888

info@gct.org.in

www.gct.org.in

This is to inform that the Department of Computer Science and Engineering in association with Institution’s Innovation Council and ISTE organizing seminar entitled “Innovation and Guidance to get into Data Analytics” on 11/03/2024

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INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

ISTE
INSTITUTIONS ENGINEERING TECHNOLOGISTS

Department of Information Technology
Seminar on
Innovation and Guidance to get into Data Analytics

Deepan Chakravathi T
Chief Technology Officer,
Urihit Solutions,
Chennai.

👤 Students 📍 Michal Faraday Hall 📅 11.03.2024 at 10.00 AM

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INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

ISTE
INSTITUTIONS ENGINEERING TECHNOLOGISTS

Department of Computer Science and Engineering
in Association with Institution's Innovation Council
Organizing

BUSINESS PLAN COMPETITION

👤 Students and Faculty
📅 23/04/2024 to 25/04/2024
🕒 10.30 a.m.
📍 Michael Faraday Hall

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This is to inform that the Department of Computer Science and Engineering in association with Institute’s Innovation Council organizing a competition entitled “Business Plan Competition” on 23,24&25th April 2024

This is to inform that the Department of Computer Science and Engineering in association with Institution’s Innovation Council and ISTE organizing seminar entitled “Robotics-Features and Applications” on 14/03/2024



STUDENT ACHIVEMENT

S.No	Date	Name of the Student	Name of the Event	Name of the Title	Institution/ Organization/Society
1	7/2/2024	P. Priyanka	Non Technical Events	Code olympiya (I Prize)	Vivekanandha college of engineering for women
2	28/3/2024	Gayathri V	Paper Presentation	paper presentation (III Prize)	Knowledge Institute of Technology
3	3/4/2024	Indhuja N	Non Technical Events	Type Racer (III Prize)	Vinayaka Mission's Kirupananda varyiar Engineering
4	12/4/2024	Paul Jones V	Non Technical Events	Bug Hunting (II prize)	Sri Shanmuga College of Engineering and Technology
5	1/3/2024	G.Boobana	Project presentation	Project Presentation	Knowledge Institute of Technology,Salem
6	1/3/2024	M.Manisankar	Project presentation	Project Presentation	Knowledge Institute of Technology,Salem
7	1/3/2024	Badhrinathan N	Technical Events	Technical Quiz	Knowledge College of Technology
8	1/3/2024	Barath G	Technical Events	Technical Quiz	Knowledge College of Technology
9	1/3/2024	Badhrinathan N	Paper Presentation	paper presentation	Knowledge Institute of Technology
10	1/3/2024	Barath G	Paper Presentation	paper presentation	Knowledge Institute of Technology

THE SCIENCE OF TODAY
TECHNOLOGY OF
TOMORROW



CONFERENCE

S.No	Faculty name	Date	Paper Title	Title of Conference / Symposium	Organizing Institution & Venue
1	Dr.R.Umamaheswari	21st & 22nd Sep 2023	Face recognition based Advanced Attendance System using Machine Learning Algorithm	International Conference on Engineering and Technology,	Selvam College of Technology
2	Mr. R.Krishnakumar	21st & 22nd Sep 2023	Design and Implementation of Diabetic Retinopathy Detections on Retinal Images	International Conference on Engineering and Technology,	Selvam College of Technology
3	Mrs.A.Sangeetha	21st & 22nd Sep 2023	Brain Tumor Segmentation Convolutional Neural Network in MR Image	International Conference on Engineering and Technology,	Selvam College of Technology
4	Mr.M.S.Sabari	21st & 22nd Sep 2023	Opinions on product Detection using SVM Algorithm using Machine Learning	International Conference on Engineering and Technology,	Selvam College of Technology
5	Mr.K.Venkatesan	21st & 22nd Sep 2023	Cyberbullying Detection using Machine Learning Algorithm	International Conference on Engineering and Technology,	Selvam College of Technology
6	Mr.K.Venkatesan	21st & 22nd Sep 2023	Deep Learning based facial Resogition system for hostel Attendance Management	International Conference on Engineering and Technology,	Selvam College of Technology
7	Ms.K.Hemalatha	21st & 22nd Sep 2023	Creation of HTML base online Zoo information Portal	International Conference on Engineering and Technology,	Selvam College of Technology
8	S.Karthickkumar	21st & 22nd Sep 2023	Design And Implementation Of Lung Cancer Detection Using Machine Learning	International Conference on Engineering and Technology,	Selvam College of Technology
9	Dr.R.Umamaheswari	21st & 22nd Sep 2023	Comparative Analysis Of Unstructured Document Classification By Using Machine Learning Algorithms	International Conference on Engineering and Technology,	Selvam College of Technology

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