ABOUT THE DEPARTMENT:

To envisage creative, globally competent, highly employable and disciplined computing professionals with the spirit of benchmarking educational system that promotes academic excellence, scientific pursuits, entrepreneurship and professionalism is the vision of the department.

The aim of the department is to install in each student a creative link between theory and practice and to understand a wide variety of software and hardware technologies and their applications.

The faculty of the department equip the students with the fundamental understanding and practical skills such as programming languages, hardware design, networks, graphics, databases and information retrieval, computer security, software design, artificial intelligence, needed by the future leaders of computing and related professions .The sustained efforts of our faculty members is to produce computing graduates with innovative approaches to programming and problem solving.

TRAINING PROGRAMS

TITILE: **GOLDENTECH BRIDGE PROGRAMME FOR SAIL EMPLOYEES**

THEME: To make aware of computer, hardware troubleshooting and common applications of computers & Internet.

The Golden Tech -Bridge Programme for employees of SAIL Salem, was conducted on behalf of 50th anniversary of Computer SOCIETY OF INDIA at DGCT on 09/08/14 at 9.00am in the college premises.

More than 40 employees of SAIL had attended and benefited by the programme as well.

Dr.Muthukumar Subramanyam, Professor & Head of the Department and Ms.S.Poornima, Mr.R.Ramesh Babu, Ms.S.Kiruthika, Mr.P.Arulraj, Mr.S.Sankar, Assistant Professors in Computer science department delivered a lecture on **"**computer awareness ,computer hardware troubleshooting and common applications of computers & Internet**"**. They shared valuable information about importance of computer applications at present and future scenario.

One of the Faculty members teaching the computer fundamentals for SAIL people.

TITLE: USE OF TECHNOLOGIES AND INNOVATION IN PROMOTING GOOD GOVERNANCE

THEME: The Purpose is to invoke the creative and innovative ideas to improve the usage of technology and innovation in promoting good governance from various sources.

On 24th December 2014, at Dhirajlal Gandhi College of technology has organized the oratory Competition on behalf of the birthday of Atal Bihari Vajpayee, Former Prime Minister of India. The students of various departments have contributed their ideas regarding the topic to describe how to enhance the e-governance idea.

The keynote speech was delivered by Mr.N.Ramesh, Technical Director of National Informatics Center, Department of Electronics and Information technology (DEITy), Salem.

He is working in government projects since 1988 and deploy and managing the E-governance activities. He emphasizes the growth of innovations need to be applied in the education, transport, laws, RTO, land registration and certificate clearance through Internet based online services.

Nearly 39 students have contributed their ideas in each and every governing body out of which 16 Students are shortlisted.

They have highlighted the importance in technical applications and also suggested

the way to build the e-governance activities in rural and urban areas. The wide coverage of topics includes a new technology that eradicates corruption, awareness of e-governance based activities like Rights to information Act.

Among the participants in oratorical competition three students were shortlisted based on their ideas provided. Mr.S.Karthikeyan – III year Mechanical Engineering - First prize, Mr. Prasad - II year Civil Engineering –Second prize, Ms.N.Ragavi – III year Computer Science and Engineering – Third prize.

TITLE: EMERGING TECHNOLOGIES AND THEIR IMPLICATIONS FOR EDUCATION AND RESEARCH

THEME: Focused on the vision and mission of an institution, followed by various emerging technologies in the field of education and research.

On December 26th 2014, Dhirajlal Gandhi College of Technology had conducted the guest lecture on the topic "Emerging Technologies and their implications for education and research", by Dr Ramasamy Uthurusamy, General Director of emerging Technologies, General motor

corporation, USA. The faculties and students of various departments had participated for the session.

The keynote speech was delivered by Dr.Ramasamy Uthurusamy emphasis the level of standard in academia.

The wide coverage of topics included in various research areas such as Data science/bigdata/Analytics, MOOC, Internet of things, Cloud computing, Social media network analysis, cyber security, Ontologies, Soft computing, cognitive computting, biomimicry, Deep Learing, mobile adhoc network, virtual

reality, augmented reality, virtualization, Visualization, Drones, Multiuser multitouch interface. The chief guest has clarified the doubt for one of the faculty.

TITLE: MICROSOFT TECHNOLOGY ASSOCIATE - TRAINING (.NET FUNDAMENTALS & SQL SERVER)

THEME: To train the students and faculties on C#.NET fundamentals, SQL Server Commands.

The five days training programme of C#.NET and SQL server conducted by CSE department dated on 5.1.2015 to 9.1.2015. Both faculty members and students attend the 5 day training programme and in the end of the training a certification exam had been conducted. In .net fundamentals, Raghunath explained about the basics of C# .net fundamentals, console application, windows application and connection with a database. On the last day of the training all the faculty and students developed an application.

For SQL server, Anand explained about the SQL commands (DDL & DML), triggers, procedures, views, functions and connectivity.

Certification exam was conducted on 13.01.2015 for both the trainings. All the

students and faculty members successfully obtained the certification.

TITLE: ENTREPRENEURSHIP DEVELOPMEENT AND TECHNOLOGY INCUBATION

THEME: Moviation to enhance the entrepreneurship of the student.

Er.Govindarajan, Joint Director/General Manager, District Industries Centre, Salem, had shared the various loans and schemes available for young entrepreneurs.

Mr.K.Saravanakumar, Managing Director, Print Magic, Salem, had shared lot of his personal experience on either ends of success and failure in progressing his business.

He also conveyed to become an entrepreneur one should have self confidence, boldness, dedication, desire, leadership qualities, and spirit to keep search for something new. A Guest lecture on "Traits of an Entrepreneur" has

presented by Lion.Rajesh Kannan, M.Phil, HDCM, Leadership Trainer and Motivational Speaker, Chennai. He conducted many activities to motivate the students for their enthusiastic involvement of projecting new ideas. He also highlighted many entrepreneurs who have achieved their goals of success.

TITLE: **TAMIL RESEARCH AND CULTURAL ASSOCIATION (TRACA) TRAINING PROGRAM**

THEME: To nurture our mother tongue and to encourage people to do research and develop modern technologies in tamil.

The variety and quality of classical Tamil literature has led to it being described as "one of the great classical traditions and literatures of the world". Tamil is one of the 22 scheduled languages of India and was the first Indian language to be declared a classical language by the Government of India in 2004. The

conqueror of the program dated on 18.2.15, Dr.Natarajan delivered a speech in the topic "beauty of tamil".

In his speech he praised the natural beauty of tamil literature and encouraged the students by quoting the success of tamil laureates & scientists in the past.

Further Mrs.Archana Manojkumar, Secretary, Dhirajlal Gandhi College of Technology, extended her greetings to the chief guest for motivating the students and mesmerised with her inspiring words.

Our college Veenalaya music team sang a loving tamil song and delighted everyone.

TITLE: **2ND APP DHOOM 2015 ANDROID MOBILE APPLICATION**

THEME: Educate the student on android development.

Computer Science & Engineering Department, has conducted 2nd appdhoom Event based on "Android Mobile Application Development" in association with CSI student's chapter and RACE on 6/03/2015 at DGCT premises. This event is an All India Level Competition which is conducted every year across all over South India.

Dr.V.Murali Bhaskaran, Principal, asked the students to develop new applications for day-to-day usage and wished all the students to use this workshop to gather knowledge and make this day as a platform for developing Android Apps.

Dr.Muthukumar Subramanyam, Professor & Head, quoted the importance of Android Mobile Application Development and their impact in real life.

He shared valuable information about mobile applications which are currently used and their future scope. He wished all the students to utilize this opportunity to develop apps for stories, Games, Animations and their area of interest.

Mr. Mohammed Mubashir Meddekar and Mr.Aravind, Target Soft Systems explained benefits of Appdoom and process that aimed to educate and create job opportunities for college fresher. They gave the detailed description about Android, Android Architecture, with real de-main building blocks of Android. They started the hands on session with Hello World - Basic UI Components Android Application, Login page Demo using Widgets, Activity Concepts – Creation of app using with Internet, creation of app for Receiving

Calls by using Broadcast Receiver Concepts. At the end of the session a contest was conducted among the participants. The winners are finalized by

experts and certified by 2nd app Dhoom, Target soft systems along with CSI.

TITLE : MOBILE APPLICATIONS DEVELOPMENT

THEME: To train the students to develop the recent android application

Computer Science & Engineering Department, conducted a Workshop on "Mobile Applications Development" in association with CSI student's chapter and Association RACE on 9/03/2015 at DGCT premises.

Mrs.H.Swathi, AP/CSE, proposed the welcome address and introduced the guest of honors.

Dr.V.Murali Bhaskaran, Principal, delivered the inaugural address. He focused on the current demands of mobile applications and suggested the students to get involved in the workshop to gain knowledge in developing simple applications. He motivated the students and he announced the keen interest of our

Secretary Mrs.Archana Manojkumar to give away the best performers of the day with awards and certificates.

Dr.Muthukumar Subramanyam, Professor & Head, discussed the importance of mobile applications in day-to-day life. He shared valuable information about mobile applications which are currently used and their future scope. He advised the students to utilize the workshop as a gateway to the world of mobile applications.

Mr. Manimaran, CCube Technologies discussed the current trends in developing mobile applications along with

its benefits. The session started with a simple hands on exercises such as creating buttons, designing controls, and the basics of various UI components. Then the students were given away with practice applications in IOS ,Windows CE and mobile OS.

At the end of the session an apps development contest was conducted among the participants. The winners are finalized by the technical experts and they were awarded by our HOD .Participants was awarded with a certificate. Feedbacks and further ideas for improvising were collected from the students.

This workshop definitely remains as a platform for the students to gain insight knowledge on basics of developing mobile application and prepared them to meet latest trends & demands in the upcoming mobile era.

Mrs. J.Vinothini, AP/CSE, delivered the vote of thanks for all staffs and participants. About 51 students and 9 faculty members benefitted through this workshop.

TITLE: **ONE DAY TRAINING PROGRAMME ON GAPPS**

THEME: To educate the faculty and mentor through google apps for industry collabration and communication.

Computer Science & Engineering Department, conducted a one day training programme on "Google Apps" in association with CloudReign Technologies, Chennai on 13/08/2014 at DGCT premises.

Mrs.B.Narmada, AP/CSE, proposed the welcome address and introduced the guest of honors Mr.K.Ananth, Lead Trainer, CloudReign Technologies, Chennai hosted solution for their email, calendar, and chat through Google Apps for Education. Mr.K.Ananth, explained the need for the Education App amongst the Faculty and Mentor and its effective usage.

Google is currently offering schools and colleges a our integrated communication and collaboration solution. Additionally, you can complement the core suite to meet your users' needs, with access to several more Google services.

CSE department signed an MOU with CloudReign Technologies, Chennai as implementation partner and service partner. About 2500 college mail id were created for the benefits of students, faculty and administrative members.

Ms. V.Vinothini, AP/CSE, delivered the vote of thanks for all staffs and participants.

TITLE: **Technical Talk on "FOSS Prog"-RACE**

THEME: To make aware of foss importance and languages.

Royal Association of Computer Engineers, a CSE Association organized the technical program on free open source software on 11.8.14. This program was mainly conducted to glims the open source software utilization.

Mr.K.Kannan, the chief guest, gave lecture on the topic "FOSS – Free Open Source Software". He gave the detailed description of "what is free open source software"? He also makes the students to learn the

usefulness of "FOSS and its future essence". He started with GNU project, developed from the FOSS Linux and continued with open languages like PHP, Java, Python, Pearl, and Ruby on rail. He briefed spirit of these languages.

Dr.Muthukumar Subramanyam, Professor & Head, quoted the importance of "Open Source (Linux)".

He shared valuable information about open source operating system used by current computing systems and their future scope. Also, he introduced the office bearers of our technical association.

National Conference on Engineering Applications for Smart Cities

THEME: To develop a new technologies for smart cities.

The idea of smart city is evolving and requires great deal of research and innovative technical solutions. As a leading engineering institution, Dhirajlal Gandhi College of Technology & the Department of Computer Science and Engineering organized first of its kind, National Conference on "Engineering Applications for Developing Smart Cities (NCEADS)" on 30 March 2015.

Dr.R.S.D.Wahida Banu, Principal, Government College of Engineering, Salem inaugurated the conference and appreciated the institutes' initiative in organizing a first of its kind conference with a theme which is of great social relevance today.

The key plenary speakers for the National Conference were Dr.Ashok Chandrasekaran, Innovation Consultant, Karlsruhe Institute of technology, Germany, Mr. Bala.K.Pilani, Director, Engineering & Product Development, IndAussie Solar Ovt Ltd.,Australia, and Mr.Visesh Kahindher, L&T Construction Chennai.

Shri.Dhirajlal A.Gandhi, Chairman, DGCT spoke on the salient features of "Green Buildings" and its relevance to Smart Cities. He announced that the institution will collaborate with industry to develop a Centre of Excellence to focus on developing technologies for Smart Cities.

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Eminent juries from premier institutions chaired session which had more than 500 UG, PG, Research Scholars and Faculty from all over India participating for Multidisciplinary paper presentations. Special skills development events and exhibition of Projects, Models and Posters related to Smart Cities were organized. Earlier Dr.V.Murali Bhaskaran, Principal, DGCT, welcomed the gathering and Dr. Muthukumar Subramanyam HOD, CSE Dept presented the prelude to the conference.

Mrs. Archana Manojkumar, Secretary of DGCT felicitated the gathering and emphasized that development of smart cities requires collaborative work from all the facets of engineering.

NEW FORUM / CELLS FORMATION

1. Inauguration of Entrepreneurship Development and Technology Incubation Cell (EDTIC)

The EDTIC - Entrepreneurship Development and Technology Incubation Cell were inaugurated in our institution under the presence of Mr.Dhirajlal A Gandhi, Chairman, Dhirajlal Gandhi College of Technology on 20.01.2015 at 10.30 A.M at College Conference hall. He addressed the students about the importance and necessity of entrepreneur to enhance the economic development of a country.

Er.Govindarajan, Joint Director/General Manager, District Industries Centre, Salem was invited as chief guest to facilitate the function.

Mr.K.Saravanakumar, Managing Director, Print Magic, Salem has invited as a special guest. He discussed about the significance and necessity of entrepreneur.

2.Inauguration Of Tamil Research And Cultural Association (TRACA)

The department of computer science and engineering has inaugurated "Tamil research and Cultural association". Dhirajlal Gandhi College of Technology has started the Tamil Research And Cultural Association (TRACA) on 18.2.15 in the presence of Dr.Natarajan/HOD, journalism and Mass communication Department, periyar university, salem.

The cell focus on the development of tamil culture and research oriented activities. The program was started with tamil thaivazhthu followed by the welcome address by Prof.Muthukumar Subramanyam-HOD/CSE.

Our college Principal Dr.V.Muralibhaskaran gave motivational speech and encouraged the students to innovate new software in tamil.

Tamil Research and Cultural club's logo was published by chief guest and by Mrs.Archana Manojkumar, Secretary, Dhirajlal Gandhi College of Technology, salem.

3.Inauguration of computer science and engineering association "Race – Royal Association of Computer Engineers"

The inauguration of CSE Department Association "RACE" was conducted on 11/08/14, 2.00pm at DGCT premises. "RACE" (Royal Association of Computer Engineers) is a CSE Association which provides a platform for innovation, knowledge improvement and enhances the skills of the students by organizing various co-curricular Activities through experts' guidance.

Smt. Archana Manojkumar, Secretary, delivered the inaugural address. She congratulated all the students for achieving good academic results, and encouraged all the final year students to concentrate more in placement activities.

Initially **Mr. K.S.Santhosh, Association Chairman,** proposed the welcome address

and **Ms.P.Keerthiga, Association Secretary,** delivered the vote of thanks for all the organizers, staff and participants. More than 400 students and faculty members benefitted through this function.

Dr.V.MuraliBhaskaran,Principal, delivered the inaugural address. He stressed the current affairs of mobile application development and their demands. He told the students to make use the facilities available in the institution and use this Association for enhancing the skills.

4.MICROSOFT TECHNOLOGY ASSOCIATE – CERTIFICATION AND TRAINING

Microsoft Technology Associate training programme was conducted in the department of computer science & engineering, DGCT for 5 days during 5.1.2015 to 9.1.2015.

Our Head of the Department Mr.Muthukumar Subramanyam has given the welcome address. Following that Mr.Anand from microsofts explained about the SQL commands (DDL & DML), triggers, procedures, views, functions and connectivity.

Also Mr.Raghunath explained about the basics of C# .net fundamentals, console application, windows application and connection with a database.