

ANNUAL REPORT

2021 - 2022

13th Annual Day, June 11, 2022



(Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai)

#27, Thayanur, Trichy - 620009

13th ANNUAL REPORT 2021-2022

Distinguished CEO, and trust of CARE Group of Institutions, Dean-R&D, Heads of Departments, Distinguished Guests, Learned Professors, Faculty of CARE, Parents, Well-wishers, Award winners, and my dear Students, Good evening to all on this 13th Annual Day Celebrations.

I, Dr.S.Shanthi, Principal of CARE College of Engineering deem it a pleasure to present you the 13th Annual Day report of our Institution for the academic year 2021-2022.

- CARE offers application-oriented courses with hands-on training in one of the most conducive learning environments in India.
- It inculcates the value of life beyond curriculum and explores the full potential of students. CARE believes in partnerships between industry, government, and higher education to yield countless innovations.
- Our faculty value corporate partnerships for the insights they contribute as much as for the support they provide.
- To foster excellence in teaching and thinkers of tomorrow and provide opportunity for students and faculty network towards research to make a global impact is the motive of our institution.

During last year the pandemic has taken its toll on all of us, especially the energetic teens staying indoors. We have left no stone unturned to keep our young minds active, healthy and constructive during this adverse circumstance with more events and academic enrichment. With all pride, I present the annual report listing down our activities and accomplishments for the period from July 2021 to May 2022.

Courses Offered @ CARE

At present, CARE College of Engineering offers 5 B.E courses in Undergraduate Programme, 3 M.E and an M.B.A course in Postgraduate programme.

1. B.E.-Civil Engineering
2. B.E.-Computer Science Engineering
3. B.E.-Electronics and Communication Engineering
4. B.E.-Mechanical Engineering
5. B.Tech.-Artificial Intelligence & Data Science
6. M.E.-Construction Engineering Management
7. M.E.-Engineering Design
8. MBA-Master of Business Administration
9. M.E.-CSE with Specialization in Artificial Intelligence and Machine Learning

STAFF DETAILS

CARE College of Engineering currently has 56 Teaching faculty members, and 109 Technical & Non-Technical staff members in its roll.

INFRASTRUCTURE

CARE has an unparalleled academic infrastructure on both aesthetic and functional aspects. Every year additional facilities are created and in the current academic year, **II Floor in Engineering wing is provided to AI & DS.**

LIBRARY

In the current academic year, new books have been added in the library resulting to a total 19,807 volume of books under titles covering all disciplines of Engineering, Sciences, and Management. Further, in the current academic year 10685 e-books have been added in the library. We have currently subscribed to 95 hardcopy Journals, 7521 online Journals and 6 hard copy Magazines.

In the current year, Our College has been registered as a 'Club member of National Digital Library' through which we can access to National resources such as e-reports, e-books, e-journals, Audio/video lectures, Rare books, Thesis, manuscript, Question paper, Technical Support, Reports etc. 6 events conducted through CARE NDLI Club.

Library fully automated and digitalized with AUTOLIB LMS software with a Budget of Rs.2.75 lakhs (**For all CARE Group of Institutions**)

ADMISSION

In the current academic year, apart from Lateral Entry and Transfer mode, CARE College of Engineering has admitted 162 students in first year UG and has admitted 52 students in first year PG and 32 students admitted through lateral.

In this academic year, the total student admissions are 246.

UNIVERSITY RESULTS

100% results have been produced in all theory subjects. Our College average Pass Percentage in past 2 semesters is 100 %.

PLACEMENTS

In the current academic year 89% of the final year students opted for jobs while remaining students prefer to go to higher studies. Thanks to the earnest efforts put in by CARE Placement Cell, 88% of opted students have been placed in the current Academic year in various companies through placement drives with pay band of 1.2 LPA to 9 LPA. Many students got 2 or more offers in various departments. Nearly 15+ Companies visited our campus for Placements.

<ul style="list-style-type: none"> ▪ Marlecha Interior Pvt Limited, Chennai ▪ Sutherland Global Services ▪ V - Dart Technologies ▪ Tata Consultancy Services ▪ Athena Technology Solutions ▪ Byte Learn ▪ Techno Tackle Software Solutions ▪ Sri Energy Excellence in Extremes ▪ Skill Lync 	<ul style="list-style-type: none"> ▪ Extra Marks ▪ Wipro Limited ▪ Jobworld India Private Limited ▪ Intellipaat ▪ Kyungshin Industrial ▪ Motherson Private Limited ▪ Gurusoft Private Limited ▪ MIPL Group, Chennai ▪ CRI Pumps, Coimbatore
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EVENTS ORGANIZED

In addition to academic activities, CARE believes in Career sculpture and personality development of students by way of organizing various events like National level Symposia, Guest lectures, Workshops, Field trips, Seminars, Short term courses, Professional and Career development courses etc.

In 2021-2022, following events have been successfully organized:

- 10+ Guest lectures
- 4 National level technical Symposia
- 12 Seminars & webinars
- 12 Short term and Value Added Courses completed
- 2 Inter departmental project expos
- 3 Faculty development programmes
- 3 Industrial visits
- 1 National conference
- 2 International Conferences

INDUSTRIAL VISITS AND IN-PLANT TRAINING

Industrial visits and in-plant trainings provide opportunities to students to get exposure and experience from actual industrial working environment thereby enabling them to interpret and understand the class room concepts better. In the current academic year,

- Our students made department wise industrial visits to 3 industries
- Students underwent in-plant training/internships in 34 industries

EVENTS ATTENDED BY STUDENT AND FACULTY MEMBERS

Attending external programs help students and staff to acquire wide external exposure in their areas of interest and to benchmark themselves by sharing knowledge with experts and their peers.

In the academic year 2021-22,

- About 124 Participations by faculty in other colleges and Technical training/events like FDP, workshops, Seminars/Webinars & Short term Courses.

- 25 % of our students from various department pursue online certification courses through NPTEL, UDEMY, Coursera, PANTECH, Indian servers, GOOGLE analytics academy, Skillups
- Smart India Hackathon – 10 batches were actively working in various domains
- 30+ papers have been presented/published by our faculty in online mode National/International conferences
- 20+ research papers were published by our faculty members in national/International journals
- 14 of our faculty attended other college workshop
- 47 of our faculty attended FDP in other college
- 10 of our faculty also delivered guest lecturers in other institutions
- In the current academic year more than 35 distinguished guests visited our campus for various programmes.

Research Grants

6 numbers of Proposals have submitted to tap the grants from Government funding Agencies like CSIR, ISRO, ICSSR, ICMR, TNSCST etc., 2 from CSE and 4 From ECE Departments.

Patents Filed

✓ **Dr. M. Sumesh**, HOD/Civil has filed a patent on “Preparation of High Strength Concrete using Multi Blend Mineral Admixture” during May 2022. Patent Appln. No: 202221028723

✓ **Dr. J.Suresh**, HOD/CSE has filed a patent on “RFID technology for IoT based personal healthcare in smart spaces” during May 2022. Patent Appln. No: 202241030962

✓ **Mr. C.S. Murali & Mr. K. Vetri Aadithiya** from Civil Department has filed a patent on "Smart Bridge System to avoid Overloading of Bridge Structures using Technical Interventions such as AI", during April 2022. Patent Appln. No: 202241028681

✓ **Mr. C.S. Murali** from Civil Department has filed a patent on "Wire Twisting Machine" during April 2022. Patent Appln. No: 363317-001

✓ **Dr. S.Shanthi**, Professor & Principal has filed a patent on “Hybrid Network for real time tracking using Machine to Machine Communication” during July 2021. Patent Appln. No: 2021103546

MoU Signed:

To provide industrial exposure to the students and faculty of CARE College of Engineering, for guiding and enhancing them to upgrade to the new technologies, with the support and guidance the MoU signed as follows,

- Siemens Centre of Excellence , NIT, Trichy
- Vaayusastra Aerospace Private Limited
- Deccan IT Technologies
- MSME (Ongoing)
- QMAX (Ongoing)
- PANTECH (Ongoing)

National/ International Conferences organized:

- Department of Electronics and Communication Engineering organized a National Conference on “Emerging Trends in Information and Communication Engineering (NCETICE’22)” during May 6th – 7th, 2022. Around 75 papers were received from various states.
- Department of CSE and ECE jointly organized a two days International Conference in association with Springer titled "4th International Conference on Computer Networks, Big Data and IoT (ICCBi 2021)" held during 9th & 10th Dec 2021. More than 200 papers were received from various colleges.
- Department of CSE and ECE jointly organized a two days Springer International Conference on “Intelligent Computing, Information and Control Systems” held during 2nd and 3rd July 2021. Around 250 papers were received from various colleges.

Awards and recognitions received by our faculty:

- Dr. M. Sumesh has been awarded as "Registered Geotechnical Engineer" and acted as the Reviewer for web of Science Core Journal collections, also he holds h-index-5 & i10index-5 in Google Scholar citations.
- Dr.A.Pasumpon Pandian holds h-index-9 & i10index-9 in Google Scholar Citations and acted as guest editors for 5 springer lecture notes publications.
- Dr.J.Suresh is acting as co-guide in Annamalai University.

- Dr.J.Jeyarani received certificate of appreciation for reviewer of conferences and journals like IVCMA SM'22, IC3IoT-2022 and Springer journal of Wireless Personal Communication. Also she published a Springer book series on Planar Multiband Smart Antenna for Wireless Communication Applications and holds h-index-5, and i10index-2 in the journal publications.
- Dr.D.R.Rajkumar & Mr.S.Karthik published a book series on Recent Advances in Mechanical Infrastructure by Springer International.
- Dr.B.Gobalakrishnan received Best thesis award and certificate of appreciation for reviewer of journals Metals & Materials, Advances in Materials and Processing Technologies and Materials Research Express.
- Mr.R.Saravanan received certificate of appreciation from MGM Hospital and Thayanur Panchayat for organizing NSS Special Camp.

The following faculty members were completed the NPTEL Certification courses through online mode,

- Mr.R.Saravanan
- Mrs.A.Shirley Mary Vanitha
- Mrs. R Sasikala
- Mrs.F.Shakila banu
- Mrs.V.Gomathi
- Mrs.V.Ranjani

Staff Development and Career Planning

Our institution lays great emphasis on Research and Continued innovation. All efforts are made by the institution to promote research culture in the campus.

The institution functions as an active research / innovation hub, with three incubators research recognized by the CARE. Faculty members are encouraged to enroll for research programmes. As a result of concerted and continuous efforts in this direction, the following are the noteworthy achievements:

- This Academic year all faculty members and Non-teaching staff have attended various training programmes related to their specializations.
- A total of 13 faculty members were doctorate among which 2 faculty members hold the Anna University research guide approval.
- In this academic year, 3 faculty members were awarded Ph.D. degree and 5 faculty members have registered for Ph.D.
- A special emphasis has been laid on Research activities at CARE Engineering College, we have applied centre for research this year from ECE Department.

Outcome Based Education

- As per the desired graduate attribute specified by the NACC & NBA and to elevate the college to the next level, a core team is constituted and activated for effective implementation of OBE.
- As the first step our college applied for NAAC accreditation which identifies the quality of the institute in terms of its education, research, faculty, infrastructure, etc., as well as giving student's confidence that they are selecting a quality institution.
- A series of four workshops were conducted on OBE to our faculty and Staff members of CARE.
- The importance of the learning outcomes has been communicated to the faculty members in every IQAC Meeting, Department and College level Meetings.

Students Achievements

In Academic:

The following Final year students have completed their VIII Semester Courses well in advance as per CBCS - Clause 4.9, Regulation 2017 of Anna University.

- Ms.P.Shanmuga Priya, Final Civil
- Ms.T.Vanathi, Final Civil
- Ms.S.Dhivya, Final CSE
- Ms.B.S.Subhashree, Final CSE
- Ms.M.Sulthani, Final CSE
- Ms.M.Syedha Mubeena, Final CSE

- Mr.S.Suriya, Final ECE

In Co-Curricular & Extracurricular Activities

- Ms.P. Shanmuga Priya & Ms.T.Vanathi of Final Civil got II prize in Paper presentation at Kongunadu College of Technology, Karur.
- Ms.T.Vanathi of Final Civil shortlisted for Bulid India Scholarship 2022 sponsored by L&T.
- Mr. V.Praveenraj of II year Civil got I prize in Technical Quiz conducted by Government college of Engineering, Srirangam.
- Mahesh.E, Derek Joyel Sam and Mathan.S of II CSE, participated and won Overall Championship in International symposium organized by Bishop Heber College.
- Mahesh.E, Aanto.J, Roshan.V, Vigneshnathan and Vijay Krishna.B of II CSE participated and won overall champions ship in International symposium organized by K. Ramakrishnan College of Engineering and won overall championship.
- Suriya.S of Final ECE has completed more than 10 various certification programs from Coursera, Udemy, Skill Lync, and Great Learning Academy.
- M.Dinesh Kumar, II ECE student secured first place in solo dance competition held at KSR college of Engg, Tiruchengode.
- J.B.Riba Sharon & S. Sahaya Dhanya Jenieve of I year secured first place in “reels” making in Intercollege competition, held at Hallmark Business School.
- S. Harish, G.Joshua and M.Yashwin Kumar of I years secured first place in “short film making” in Intercollege competition, held at Mookamibai College of Engg.

Other Learning facilities

The students are also provided opportunities to improve their multi-disciplinary skills and knowledge in desired areas through video tutorials, webinars, by using online applications like Moodle, MOOC, Coursera, NPTEL and also through guest lectures, seminars, workshops.

Association Activities

To train the students in curricular and co-curricular activities, each department has its own Association. During this academic year a total of 40+ activities were conducted including National level technical symposiums and other club activities.

Club Activities

Club activities are imperative for cultural awareness, high ethical and moral values and to seed a sense of social responsibility. For those with an intense fervor and zeal for the stage, clubs provide an opportunity to showcase their skills and voice their emotions and innermost thoughts. CARE has at present following 6 such clubs:

- Dramatics Club
- Music Club
- Literary Club
- Tamil Literary Club
- Eco Care Club
- Photographic Club

NSS Activities

CARE NSS Unit renders active participation with its motto '**NOT ME BUT YOU**' & Theme '**HEALTHY YOUTH FOR HEALTH INDIA**'.

- Organized various awareness programs to its volunteers on Unnat Bharat Abhiyan with 58 student volunteers.
- A Special Eye Camp was conducted in association with Vasan Eye Care.
- A NSS Special camp was conducted @ Thayanur Village and School campus under Swachh Bharath scheme with 50 student volunteers.
- Awareness Rally on Swachh Bharat and Atma Nirbhar Bharat was conducted in Thayanur Panchayat with 26 student volunteers.
- Blood Donation Camp in association with MGM Govt. Hospital, Trichy, was conducted and many of our students were actively participated.

SPORTS

Sports create energetic and vibrant ambience and promote health and team spirit. Our students have brought laurels to the institute by their performance

in sports activities in 2021-22. Notable achievements of our students in this year are:

- R.Vaishali, of III year Mech, secured First Place in State level sports meet throw ball tournament held at Uttar Pradesh during February 2021 and she participated in Sub Junior, Senior State and National level tournaments organized by various Sports and Federation.
- Pasupuleti Vamsi Krishna of II Year AI & DS secured first place and Third place in South India National Power Lifting Competition conducted by Telangana State Powerlifting Association at Hyderabad during January 2022 and April 2022 respectively.
- Sheik Dawood of I year secured eleventh place in body building held at wolf classic 2021.

SIGNIFICANT EVENT /ACHIEVEMENTS

The following Significant Achievements of the college CAY

- IEEE Institutional Membership with staff and student membership obtained.
- 88% Students Placed.
- More than 35 distinguished guests through key note addresses have done.
- Vibrancy through various program (Project Expo, SIH 2020, AICTE, Club activities, Sports, online webinar, Expert talk) were organized by the faculty members.
- Funded proposal have submitted to various Govt. Funding Agencies.
- Current academic year 4 MoU Signed with reputed Industries.
- News letters are published in each department on every 6 months.

Future Goals

- Getting NAAC & NBA Accreditation and thereby apply for National level Ranking. Also plan for getting Autonomous status for our Institution.
- Benchmarking with global universities who are in the top 200 in world rankings in terms of teaching, innovation and research, funding.
- Building world-class research infrastructure to facilitate multi & interdisciplinary research.
- Social outreach activities of national level importance.

CONCLUSION

In conclusion, I would like to say that this academic year has been yet another year of sustained effort, perseverance and great success. On this occasion, I would like to point out that with the cooperation of all; the institution has done its best in all its domains of activity and in all its endeavors, with the single-minded aim and goal to excel in curricular, co-curricular and extracurricular activities. The Faculty, Staff and Students have been doing exceedingly well and have brought laurels to this institution with the full support of the Management. In the midst of all these achievements, we always like to remind ourselves that we have “miles to go” and that our journey continues.

On this auspicious occasion, I wish to thank my entire faculty, non-teaching staff and my dear students who have been responsible for elevating this institution to this level and for transforming as one of the best Engineering Colleges in Tamil Nadu.

I am confident that this institution will grow in all dimensions in the future and continue to be an institution of excellence and emerge as a global institution in the years to come.

Thank you!

CARE 

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