



SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY



An Autonomous Institution, Affiliated to Anna University,
Accredited by NAAC with "A" Grade & Accredited by NBA (CSE, ECE, IT, MECH & MCT)
KUNIAMUTHUR, COIMBATORE - 641008.

ANNUAL REPORT 2020-2021

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ABOUT SKCET

Sri Krishna College of Engineering and Technology is an autonomous Institution, accredited by NAAC with 'A' Grade (3.42 out of 4 Scale). The Institution offers 9 UG Programmes, 9 PG Programmes and 1 Integrated Programme. 7 of its UG Programmes are accredited by NBA. SKCET provides an exciting academic environment with well qualified and dedicated faculty members to inspire and nurture the student fraternity. The Institution is ranked 83rd among engineering colleges in India by the MHRD- National Institution Ranking Framework 2020 and 2nd among private self financing Institutions in ARIIA 2020 rankings. SKCET has also secured second rank among technical colleges in all India Swachh campus awards 2019. The Institution is bestowed with world class facilities including state of the art laboratories, smart classrooms, library, multiplex theatre, athletic cum football field, gymnasium, health center, indoor stadium and open air theatre, making it a suitable place for young engineers to realize their dreams. The college has an active Innovation and Entrepreneurship Development Centre (IEDC) funded by the Department of Science and Technology (DST), Government of India. The Institution also has a vibrant Research Incubation Cell (RIC) to provide incubation support to the budding entrepreneurs. The institution provides mentoring support, office space and testing facilities to the start-ups to commercialize their creative ideas. Some of the prominent start-ups taking incubation support at SKCET are, Intain Technologies, Inspirit Junction, Medipro and F-Bot. SKCET has an active MHRD supported Institution Innovation Council (IIC) to promote the culture of innovation and entrepreneurship among the students and faculty. Aiming at the fruitful outcomes such as technical support, training, industrial exposure, internships, placements, SKCET has signed 32 MoUs and established 12 Centres of Excellence with leading Industries and premier Institutions like NITTTR - Chandigarh, Tata Consultancy Services, Virtusa Corp, Valparaiso University, Siene Aerospace-Dubai, Barry Wehmiller, Shanthi Gears, Sector Skill Council, to name a few. SKCET excels in its efforts towards achievement of academic goals and it is noteworthy to mention that SKCET is chosen by MHRD to host 'Smart India Hackathon – Software Version' during 2017, 2018, 2019 and 2020, consecutively. SKCET students have participated in several hackathons and secured prizes and internships from various reputed national and international organizations like Harvard University, USA, National University of Singapore, Smart-India Hackathon, ASEAN Hacathon and Google- to name a few.

INSTITUTIONAL ACHIEVEMENTS

- Ranked 83rd in NIRF Ranking 2020– Engineering Category.
- Achieved All-India Second Rank in ARIIRanking 2020.
- Recognized as the Top 6th Private Engineering College India Today MRDA Rankings 2020.
- Recognized as Best Engineering College of the Year 2020 by EDUCATIONAL EXCELLENCE 2020, a prime International Education Awards group
- Proud recipient of Learnathon Awards 2020, for training our students in Industry 4.0 courses by ICT Academy.
- SKCET is chosen as a prestigious nodal center for the fourth consecutive year to host the software edition of Smart India Hackathon 2020 -Virtual Mode.
- Accredited by NAAC with 3.42 CGPA on 4 point scale and by NBA (MECH, MCT, ECE, CSE, IT).
- Acquired the Fifth Golden Star with 100/100 marks and 840 plus reward points from MoE and AICTE
- Chosen as a prestigious nodal center for the fourth consecutive year to host the software edition of Smart India Hackathon 2020 -Virtual Mode.
- Premier Institute to introduced the new-age course B.E Artificial Intelligence and Data Sciences
- Offering exclusive M.Tech Computer Science and Engineering (5 year Integrated) degree program Powered by Virtusa Corporation.
- The Institution's Innovation Council (IIC) of SKCET is declared as one of the top Institutions across the country in Annual Performance ratings for the year 2019 – 2020. The IIC of SKCET has been bestowed with 5 star ratings for its outstanding performance.
- SKCET is rated one among top 10 partnering institutes with Infosys for campus connect Programme. Also, our Institution has received the Infosys Silver Partner Award.
- SKCET recognized as National Cyber Defense Resource Centre (NCDRC) by the National Cyber Safety and Security Standards
- SIRO recognition from the Department of Scientific and Industrial Research Governing Body.
- SKCET Received —Best Innovator Award for Cambridge Assessment, Business English Communication (BEC) Cours
- Conferred with Second National Rank in SWACHH Campus Rankings 2019, consecutively for the second year amongst the Higher Educational Institutions in the country by the Ministry of Human Resource Development, Government of India.

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- Ranked second in the Clean & Smart Campus: 2019 awards instituted by Swachh Bharat Mission Council.
- “National Third Rank” for the One Student-One Tree Initiative in Jal Shakti Abhiyan for the exemplary green cover ventures initiated with Mega Plantation of 10,050 trees at SKCET campus.
- Recognized with SIRO by the Department of Scientific and Industrial Research (DSIR).
- One among 8 partner institutes of AICTE across the Nation for FDP programs.
- Identified to mentor 10 non-accredited Institutions in our geographic vicinity and support them for getting NAAC accreditation

DIGITAL TEACHING

Pandemic catastrophe has led the education industry to enter into a new digital era. But it is not new to SKCET. Our existing 24/7 blended online classrooms makes our students continue their learning with full digital facilitation of our faculty. Instead of offline classrooms, interactive online classrooms were the need of the hour and SKCET went the extra mile to do it with perfection.

Google classroom is being actively used to conduct virtual classes during the pandemic. It is used to streamline assignments, boost collaboration, and foster communication. In Google classroom, faculty use video meetings to teach the students, along with added materials such as YouTube videos, presentations, and other educational aids from Google Drive. Assignments are posted to the students as 'quiz assignments', 'assignments' and 'Google forms'. Students submit their assignments, which are further evaluated by the faculty and scored online. This enables posting of time-bound assignments which are managed digitally. Google forms are also used for conducting quizzes for the students-aiding them to view their results immediately on taking up the quiz.

- All Continuous Internal Assessments - CIA I, II & III (Internal Exams) have been conducted online via Google Meet using Google Classroom. During the examination, students were monitored through video conferencing mode and the answer scripts were submitted in a Google drive link within the stipulated time.
- All Internal Components such as Assignments, Case Study, Tutorial and Quiz are submitted by the students in Google classroom and are evaluated by faculty immediately after submission, displaying their results immediately.
- Online Lab classes are conducted by faculty using simulation tools and virtual labs developed by online cloud programming environments like Tinkercad, webminal etc. During Lab hours, Faculty evaluate the Students lab work progress and test their knowledge by asking Viva Questions. This process ensures that rubric based continuous assessment is possible for the laboratory courses.
- Online Project reviews were conducted using Google classroom where students demonstrated their project online and were evaluated by Project Panel Members.
- Proctored online Semester exams for both Theory and Lab have been conducted as per directions from Anna University, following norms.

SKCET has also collaborated with Coursera to equip students, providing free access and certification to many online professional development programs. SKCET encouraged students and faculty to equip themselves with new skills and courses using the online



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education platforms, made accessible using our college allotted email logins. As a result, a total of 4537 courses were completed by students and faculty, certified by Coursera. A total of 10,000+ online MOOC certifications have been received through various other Online Platforms like edx, SWAYAM/NPTEL etc. To uphold research and academic activities of the faculty members and students, SKCETians were given access to the IEEE Xplore Digital Library from the comfort of their home, serving as a virtual learning environment. IEEE consented to provide access to and download of all IEEE journals, technical magazines and transactions irrespective of where the faculty and students were located.

STUDENT ACHIEVEMENTS

- Three teams have won the first place with a cash prize of Rs.1,00,000 each in SIH 2020- Software and Hardware hackathon in spite of the covid huddle solving issues posted by the Ministry of Technical Education, Department of Science and Technology and Ministry of Ayush respectively.
 - SIH Software Version - 1 team
 - Team 1- Zero_Buggers won the First Prize- Rs.1,00,000 under Ministry- Ministry of Technical Education. The Team Members are: Vijayalayan A , Sanjay kumar TN, Swetha V, Naveen kumar B, Naveen subramaniyan, Nithin KM from III CSE, under the guidance of Dr.S.Balakrishnan , HOD/CSBS.
 - SIH Hardware Version - 2teams
 - Team 1: Team Cache Fort won the First Prize: Rs.1,00,000/- under Ministry: Department of Science and Technology for the Problem statement: PR324- Video Conferencing-Eye to eye contact- Mobile App. The team members are B.Jegan Prakash, K.M. Keerthi Raajan and S.Parvathynathan from III CSE and J.Kiruthik Prakash, Luis Cruz Govindapillai and K.K. Karishma from III ECE under the guidance of Ms.A.Priya,AP/CSE
 - Team 2- Next Gen won the First Prize- Rs.1,00,000 under Ministry- Ministry of Ayush for the Problem Statement- Virtual Reality Yoga solutions. The Team Members are Shibin Thomas and Prawin Shankar from III MCT, Srinithi.B and Shridhar KE from III MECH, Ramya (IV ECE) and Monisha (II CSBS)
- A team from CSE consisting of Adithya Menon S (III CSE), Yogeshwar BK (III CSE), Samuel Wycliffe (II CSE), and Kumaraguru T (II CSE) has won Overall First Prize in HueHacks hosted by Major League Hacking, USA for their project title Hue pal. This event was held during March 27 and 28 in virtual mode and awarded with Fire 7 tablet+MLH swags for each team member.
- The team also won 2nd prize in the Calvin Hacks 2021, 24 hours hackathon hosted by Calvin University, Michigan, USA held during March 26 - 27 in virtual mode and have been awarded with a DJI drone worth Rs.12000 for each team member.
Project Title : Vacay Pal
- Mr. Navin P & Mr.Manivannan.K of I CSE B have been selected for Round 2 (placed in top 10 teams) in a semi-code competition, conducted by" ACM- Student Chapter Indira Gandhi Delhi Technical University " with a cash prize of Rs.20,000/-
- 32 1st yr women students from SKCET have been selected among 3800 students

shortlisted from 27,643 women applicants for the next level of Google WE program. All the shortlisted Students are to be mentored by Google Technical architects for coding bootcamp and the successful top 500 Students would be a part of the Mentorship program by Google for the next 2yrs.

- Harish Sanmugam.J of III CSE has won PyHack 2021, a hackathon conducted by Saama Technologies - Chennai(#1 AI-Powered company for clinical analytics) with a cash prize of Rs. 10,000/-. Saama Technologies has recognised his excellent coding talents and offered him a research internship with a stipend of Rs. 20,000/- per month.
- Civil Engineering students Arundhathi A, Swetha R, Aadhis B K and Divyadharshini V M have won the 1st prize in an event "Build-A-Thon" organized by BITS PILANI. The theme of the event was to plan an energy efficient building in Pilani. Students were asked to submit and present a report on the material selection., energy analysis, cost of construction. They have been mentored by Mr. Vighnesh R AP/ Civil Engineering and the team was awarded with a cash prize of Rs 5000 /-
- I CSE C students Vijay Venkatajalapathi G, Shalini S, Suganth M and Sugavanesh M have won Best Designed App in Virtual Hackathon - Hackerflow Event 2021 with Amazon Gift Voucher Rs.5000
- IV Civil students Mr. Aadhis B K, Mr. Aruneswaran M ,Ms. Kowshika G and Mr. Ramprakash C have won the second prize with cash award of Rs. 30,000 in the final presentation (out of 15 best entries presented throughout India) of National award competition for students organised by INSDAG, Ministry of Steel and Government of India, Kolkata. The theme of the competition is Steel Intensive Quarantine Centre Building for Covid 19.
- I M.Tech-CSE students Bhuvanesh.T.G, Mahendran.R and Aravind.A have won the Third Place in " Top Coders and Top Designers" A State Level Programming Contest organized by E-BOX in association with TiE and Partner with Virtusa held on March 19.
- Adithya Menon S and Kumaraguru from CSE have garnered a victory in the Healthcare track in Rice Hack 2021 hosted by Rice University, Texas, USA held during March 13 - 14 in virtual mode. The team is offered with an internship at 2nd.MD (Texas based medical company) along with an instant camera worth \$140 USD for each team member.
- SKCET CSE- Unparalleled Winning streak in International Hackathon
Happy to share that our student T.Kumaraguru -II CSE won OVERALL FIRST PRIZE in Make Harvard 2020 Makeathon
hosted by Harvard College under Harvard University, USA held during February 13 - 14, 2021 through virtual mode.
Project Title : Konnex Smart Mask

Prize : Creality 3D Printer

- SKCET Winners of Smart Water Challenge event in SHAASTRA2021, Annual Tech Fest, organized by IIT Madras. The winners were awarded with a cash prize of Rs.12000. Subhashree.C.P (III Civil), Swetha.R (III Civil), Arundathi.A (III Civil)
- Adithya Menon S, Yogeshwar BK, Kumaraguru T and Samuel Wycliffe from CSE have won the FIRST PRIZE (iPad Air worth Rs.70,000 for each team member) in the #SteelHacks2021 hosted by University of Pittsburgh,US for the problem statement posted by NSIN (National Security Innovation Network) and U.S. Navy held during February 19 - 21, 2021. The event was sponsored by Google , U.S. Fleet Cyber Command/U.S. TENTH Fleet (U.S Department of Defense), Deloitte,
- Keerthi Raajan from CSE and Luis Cruz Govindapillai from ECE have been declared winners in ASEAN - INDIA HACKATHON 2021, an initiative by the Hon'ble Prime minister of India Shri. Narendra Modi. They have been awarded \$2700 each for providing an intuitive and novel solution to their problem statements under the dynamic mentorship of Ms.A.Priya/CSE.
- J.Harish Shanmugam, R.Akhilesh and S.Parvathynathan from CSE have also received awards of \$600 each for their outstanding performance.
- Shameer. S, Saravanan. V and Jegan Prakash S from III CSE students have bagged a cash prize of ₹10,000/- each and certificates through their Exulting performance at GUVITHON-2021. They have been recognized as one among the Top 20 Young Budding Web Developers for GUVI websites in India is an added feather. This event was sponsored by Amazon and they have offered Free Guvi courses and Gift Vouchers.
- The Student Project titled 'e-Drone for Smart Agricultural System', developed by Lakshmi Prabha P , Madhumidha K, Rathish Kumar D O, Mohammed Saiih U and Pragatheshwaran N from III EEE has been selected in Top100 Band under the category 'Agritech and Livestock' in 5G Hackathon organized by Department of Telecommunications, Ministry of Communications, Government of India. The team has been awarded a cash prize of Rs.1 Lakh.
- T.Kumaraguru from II CSE has bagged a cash Prize of Rs.20,000 and an Award for hailing runner up in Global Student Entrepreneur Awards 2020 - Regional qualifiers This event was hosted by Entrepreneurs Organization - Coimbatore chapter our student will take part in the next Multifarious Mega -Final (GSEA) Spangler Round at EO's Level which will be held in Bhopal.
- Kumaraguru and Samuel Wycliffe from CSE Sweepstakes won the First Prize of Rs.1 Lakh Cash Reward in Injinihack, a 48 Hrs Tech Online Hackathon hosted by JiniHacks, for the problem Statement: Human interaction post COVID using novel implementation of QR Codes and Near Field Communication (NFC) Technology for seamless check-in and ML for Menu.



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- S.Mathankumar, III Mechanical Engineering student was appreciated by Minister Mr.KadamburRaju, Thoothukudi District Collector Mr.SandeepNanduri and Municipal Commissioner Mr.O.Rajaram for the demonstration of his project titled 'IOT based motion control robot.
- 22 students from MECH, CSE, EEE and MCT won the Runner-up Championship with a cash prize of Rs.30,000 /- and Team Future Award of Rs.10,000/ among 95 different teams at Indian Karting Race, Bhopal on 25.01.2020.
- III year CSE students participated in Hack & Roll 2020 , a 24-hour Hackathon at National University of Singapore (NUS) between 18.01.2020 to 19.01.2020 and won —One among Top 81 projects for the project titled —SEEnsel (Smart Eye for Visually impaired).

FACULTY ACHIEVEMENTS

- 29 faculty members have secured their Doctoral Degrees
- 246 Scopus Indexed Journals, 84 Web of Science publications and 50 book chapters have been published till date since June 2020.
- Faculty members have also enriched their knowledge by undergoing various online MOOC certifications and have received 1246 certifications from NPTEL-SWAYAM, Coursera and edX- to name a few.
- A total of 117 FDPs / PDPs / Training Programmes were organized for faculty members.
- 215 Faculty members are funded by the Institution to attend FDPs, Conferences and towards membership fees.
- In all, 290 faculty members attended the PDPs, FDPs, Orientation programmes and short term training programmes.
- A total of 64 patents have been filed by the faculty members of SKCET, out of which 62 are published and 2 have been granted during the years 2020 and 2021.
- 5 International Patents have also been filed during the years 2020 and 2021
- Dr.J.Janet, Principal, SKCET, has been awarded the prestigious Visvesvaraya-Best Teacher Award 2020, from AICTE in 2020 with a cash prize of Rs.25,000.
- Dr.J.Janet, Principal, SKCET, has been honoured as a national level mentor for the MHRD-AICTE Mega "Samadhan" to be held on 08.04.2021.
- Dr.J.Janet, Principal, SKCET, has been recognised in the an International campaign for promoting social responsibility among communities by Green Organisation, a Global CSR initiative
- Dr.J.Janet, Principal, SKCET, has been honoured for her Outstanding Contribution in Education and Research Domain under the category Excellent Administration and Technology.
- Dr.Balakrishnan, HOD, CSBS, has mentored a batch of students towards claiming the first prize of Rs. 1,00,000 in the Smart India Hackathon 2020 for problem statement "Tracking and prevention of any suspicious activity of the inmates in the jail" by Directorate of Technical Education. He has also mentored 5 students teams in Institution"s Innovation Council, National Innovation Contest, Toycathon 2021, ASEAN India Hackathon 2021 and Machine Learning Developers Summit 2021.
- Mrs.A.Priya has mentored two student teams to win Overall First Prize in HueHacks hosted by Major League Hacking, USA and 2nd prize in the Calvin Hacks 2021 securing stellar prizes worth Rs.50,000 each.
- Dr. Pushpalatha A, and Ms. Priya A, have guided Harish Sanmugam.J of III CSE to win PyHack 2021, with a cash prize of Rs. 10,000/- and a research internship with a stipend of Rs. 20,000/- per month
- Mr. Vighnesh R, Mr. Boobalan S C, M.R.Ezhilkumar Assistant Professor, Civil

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- Engineering Department, has successfully mentored students team towards winning Build-A-Thon organized by BITS PILANI, Smart Water Challenge at IIT.
- Ms.Renugadevi.G AP/CSE, Ms.Saranya.N / AP-CSE, Ms.M.Rohini AP/CSE have guided the students towards winning hackathons with a cash prize of Rs.50,000.
- Mr.N.Ramachandran, Assistant Professor, Mechanical Department has also mentored a team of students towards securing the first position with a cash prize of Rs. 1,00,000 in SIH hardware version, under the Ministry of Ayush.
- Mr.Manikandanand Ms.Nagajothi, Faculty of CSE guided TeamCovintine towards funneling the most impactful solution at 'MHRD-AICTE Fight Corona Ideathon', claiming the Third Prize. They delivered a viable solution titled 'AI approach to find the permuting structure of COVID -19', to emerge as the only Winner from TamilNadu State and Third among National level amongst 5500 entries all across the country. They has been awarded a cash prize worth Rs 20,000 from AICTE.

PLACEMENT INITIATIVES AND MOU

- When the going gets tough, the tough gets going. SKCET has once again proven its mettle with stellar placements for 2021 Batch. More than 149+ companies hired our students virtually with 396+ Product Company Offers and a total of 827 offers with the highest package of 28 LPA in Amazon and an Average package of 4.8 LPA.
- **Bolstering placements Year on year:** 27+ new companies were added in this academic year to bolster placements. Thoughtworks and Quinbay hired 11 students and 15 students each with CTC of 8.5 LPA , first time they have given double digit offers to any college in India. Accenture , Capgemini , TCS, LTI hired 45 students for differential hiring (Full stack role) for CTC of 6.5 LPA - 8 LPA.
- Ours students got placed in various **product/service companies** like Amazon, Informatica, Soliton, Zoho, Freshworks, Quinbay, Temenos, EY GDS, Thoughtworks, Ford IT, Hyper verge, Tiger analytics, Zifo R&D, Virtusa, Lead squared, Multicore, Athena health, Presidio, EpikIndfi, Trimble, ZoomRx, Fourkites, Odessa, Vuram, Aspire, Grootan, AppViewx, Yellow messenger, Astrazeneca, LTI, Accenture, CTS, Capgemini, Lucid, Lumen, Wipro, HCL and many more.
- **1-yr Internship:** Our Institution encourages students to take up a one-year internship program, with pay, in reputed companies. More than 368+ students are undergoing virtual internships with stipends ranging from 15k to 60k per month. Highest Internship Stipend of Rs.60k /month with Package of 28 LPA was paid by Amazon to Mr. Meikanthan, IV-IT for SDE role.
- SKCET Ranked 22nd in National Level and 7th in South Zone in AICTE Internshala Ranking 2019
- 907 students underwent internship of which 285 is converted into placements.
- Final year Mechanical students completed an Internship cum Consultancy Project in Marvel Machining System, Coimbatore - A Manufacturing Firm which manufactures components for ISRO, HAL,DRDO, Brahmos etc. and received a grant worth Rs.60,000/-
- Mr. Akash and Mr.Harish (CSE Department) have obtained Internship offer and funding (Rs.75,000) from Nanban Startup Labs and TNAU.
- **Test from home:** Since placements went virtual from April , SKCET has been pioneers in adapting placements in Virtual mode. In order to equip our students with remote hiring we conducted tests from home every tuesday & thursday and weekly Saturday 2 hrs-coding challenge from April 2020 onwards in various online platforms like hacker rank , hacker earth.
- **She hacks:** An exclusive hackathon was conducted for 3rd yr girl students to

acclimatize with company relevant problem statements. Industry stalwarts from Amazon, Freshworks, Zoho were the mentors to our girl students.

- **Core Training and Career guidance** are given to the students through Virtusa, Aspire Systems, EMURGO, Infosys Campus Connect, WIPRO PRP, Virtusa, Qubercomm, Bootcamp, Ebox, Guvi, BarryWehmiller, Fanuc, ABB, BIS, MRF, L&T.
- **MoU:** Vuram and hexaware. Even in this pandemic situation, SKCET team was very active and vibrant in attracting leading companies to sign MoU for Industry-Institute partnership. In the academic year 2020-21, SKCET has signed MoUs with Vuram and Hexaware for the "Train + Hire" model with a CTC of 5.2 LPA.
- 54 active **MoUs** with industries like TCS, VIRTUSA, Aspire Systems, EMURGO Global, Zoho Corporation, DELL EMC2, Barry Wehmiller and premier Institutions like NITTTR Chandigarh
- Tie-up with few of the world's **premier Universities** namely Texas A&M University, Marshall University and Valparaiso University, USA to jointly offer twinning B.E degree programs.

RESEARCH & DEVELOPMENT

SKCET houses a team of vibrant faculty members who are keen on research. Quenching their thirst for knowledge, our faculty members have received grants to the tune of Rs. 9.15 Crores from various government fundings like DST-CHORD, WOS, TIDE, CSRI, SEED, Young Scientist, UGC-MRP, TNEDI and IEDC- to name a few. A brief list of the ongoing funding projects are listed below:

| Sl. No. | Name of the project | Funding agency | Scheme | Amount (Rs. in lakhs) | PI & Co-PI Name |
|---------|--|--------------------|----------------|-----------------------|--|
| 1 | Food supplementation to combat primary health care deficiencies and economic Empowerment of dwellers in Forest fringe villages | DST | TITE | 60.21 | Dr.J.Janet |
| 2 | Effect of reinforcement on A356 aluminium alloy with Fly ash/SiCp hybrid metal matrix composite using squeeze casting route | UGC Minor Research | MINOR RESEARCH | 4.70 | Mr. R. Soundararajan |
| 3 | Development of an Automatic Multipurpose Bed for Paralytic attacked, Differently-abled and Elderly Persons | TIDE -DST | TIDE | 62.81 | Mr.C.Samson Jerold Samuel |
| 4 | Modernizing Digital Signal Processing Lab | AICTE | MODROB | 10.68 | Dr.S.Sophia, Dr.C.Thirumaraiselvi, Ms.D.Devi |
| 5 | Design of Personal Assistant System for Alzheimer Patients | DST | SEED/TIDE | 57.37 | Dr.D.Surendran Dr.D.Prabha |
| 6 | Developing Women Entrepreneurs in the field of millet food production to ensure nutritional security | DST | SEED/WS | 35.4 | Dr.M.Sujaritha, Dr.S.Sophia |
| 7 | Unification of newness and corporate entrepreneurship exercises for social and economic benefits for Women | DST | NSTMIS-CHORD | 29.84 | Smt. S. Malarvizhi Dr.J.Janet Dr. V. Ragavi Dr. P. Thamaraiselvi |

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| 8 | Impact of gender main streaming schemes in science of government of India | DST | DST- WoS | 21.19 | Dr.S.Sophia |
| 9 | PMKVY | AICTE | PMKVY | 28.00 | Dr. J. Janet Dr. P. Ashoka Varthanan |
| 10 | Exploring And Eliciting The Royal Heritage Of Badaga Community Which Enhanced The Civilization In The Nilgiris | DST | Science and heritage research initiative-SHRI | 10.00 | Mrs.A.Amutha Dr.A.Karthika |
| 11 | Structural and Electrical-Transport Relations in $La(1-x)AxTi0.5B0.5O3-\delta$ (A= Mg, Na, Li, Y, B= Zr, Co) complex perovskites for solid oxide fuel cell applications | DRDO | Aeronautics Research and Development Board (AR&DB) (Materials and manufacturing panel) | 28.00 | Dr.Bradha Madhavan Dr.Aruna K.K |
| 12 | Food fortification technology to combat primary health care deficiencies and economic Empowerment of dwellers in Forest fringe villages | DST | SEED TITE | 60.21 | Dr. J. Janet Dr. V. Ragavi Dr. A. Indulekha |
| 13 | Enhancing the soft know how and technical competencies for SC/ST students | AICTE | AQIS SPDC | 18.090 | Dr S.Sophia Ms,K, Suriya Ms.D. V. Soundari |
| 14 | Detection of Food Adulteration using IR Detector | DST | SEED | 36.99 | Dr.D.Selvakumar Mr.T.Vignesh Mr. N. Manikandan |
| 15 | Smart log: A deep learning based automated nutrition monitoring system in IoT | TNSCST | - | 0.075 | Ms D Devi |
| 16 | Automatic fire fighting robot with smart camera | TNSCST | - | 0.075 | Mr N Ramachandran |
| 17 | RPS on A Novel EMI- Resistant ICD for heart patients | AICTE | AQIS RPS | 11.000 | Dr S Sasipriya |

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| 18 | Development of PD Diffused Transition Metal (Mo, Co, W) based Chalcogenic Heterostructures support | DRDO | (AR&DB) (Materials and manufacturing panel) | 36.000 | Dr.Aruna K.K Dr.Bradha Madhavan |
| 19 | Design of Automated hybrid classification system for diagnosis and Training of Autism disorder | DST | CSRI | 38.02 | Dr.V.Ragavi Dr.J.Janet Prof.S.Balakrishnan |
| 20 | Design of Intelligent Home for Disabled Elderly Using Wireless Sensor Network | DST | CSRI | 31.35125 | Dr.S.Sophia |
| 21 | STTP On Multidisciplinary competency training for mechanical engineer | AICTE AQIS | - | 2.79 | Dr. S. Balasubramanian |
| 22 | FDP on Structural Stability Assessment for Repair and Upgrading of Structures | AICTE AQIS | | 6.2 | Dr. P. Saravanakumar |
| 23 | STTP On Augmented Reality and Virtual Reality-Future Technology | AICTE AQIS | | 4.2 | Dr. D. Prabha |
| 24 | Synthesis and characterization of hydroxyapatite reinforced graphene oxide nanoparticles coated on shot peened Titanium alloy for biomedical implants | DST | SERB | 12.375 | Dr. S. Balasubramanian |
| 25 | Empowering the under privileged communities in Karamadai and Periyanaickenpalayam areas of Coimbatore district through smart technologies augmented with sustainable training | DST | SEED | 187.7 | Dr. P. Ashoka Varthanam |
| 26 | STTP on Automotive Embedded System Using IOT | AICTE AQIS | | 4.0266 | Mr. M. Senthilkumar Mr N Loganathan Ms. T. Malini |
| 27 | STTP on Applications of Remote sensing in Soil and Groundwater contamination Assessment | AICTE AQIS | | 2.92 | Dr. D. Maruthachalam Dr. P. Saravanakumar |

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|----|---|--------|-----------------|---------|--|
| 28 | PMKVY Skill Development Program | AICTE | PMKVY | 1.90452 | Dr. J. Janet Dr. P. Ashoka Varthanan |
| 29 | Investigation and optimization of shot peening process parameters on 2024 Aluminium alloy using Nickel Shots" | DST | YOUNG SCIENTIST | 17.10 | Dr. P. Ashoka Varthanan |
| 30 | Structural Assessment, Repair and Rehabilitation of Structures | AICTE | FDP | 4.948 | Dr. P.Saravanakumar |
| 29 | STTP on Building cyber physical ecosystem | AICTE | AQIS | 1.214 | Dr. D. Prabha Dr. K. Rama Abirami Ms. P. Anitha Ms. S. Mohana Gowri |
| 30 | ATAL FDP on Artificial Intelligence, Machine learning and Genomics | ATAL | FDP | 0.93 | Dr. S. Sasipriya |
| 31 | ATAL FDP on 3D Printing | ATAL | FDP | 0.93 | Dr. T. A. Selvan |
| 32 | An enterprise perspective on Blockchain Technology | NITTTR | | 0.7 | Dr.A.Devipriya Ms. S.Lavanya |
| 33 | STTP on Short Term Training on Zero-Shot Learning by Convex Combination of Semantic Embeddings | AICTE | AQIS | 4.25 | Dr D Selvakumar |
| 34 | ATAL FDP on Intelligent Computing in Data Science | ATAL | FDP | 0.93 | Dr. J. Janet Ms. A. Priya Mr. S. Suresh Kumar |

CENTRES OF EXCELLENCE

As a part of continuous development, our infrastructure and laboratories were upgraded during this year. A centre of excellence also aims at revitalizing stalled initiatives. The latest upgrades to infrastructure and facilities include Centres of excellence (CoE) adding value to our sophisticated resources. The CoEs established were

- ❖ AI,ML, DS and RPA by Talentsprint
- ❖ Full Stack Programming by VirtusaCorp
- ❖ External Research and Academic Alliance, Data Science and Big Data Analytics by Dell EMC Corp
- ❖ ZOHO Inc Incubation Centre
- ❖ Cloud Computing by VMware Inc
- ❖ Big Data by Cloud Bull Inc
- ❖ VLSI by Cadence Design Systems Inc
- ❖ Building Information Modelling by Bentley Systems India Pvt. Ltd
- ❖ Antenna Design by ANSYS Inc
- ❖ Automotive Design by Siene Aerospace Products Design, Dubai
- ❖ Materials Processing and Testing Lab funded by AICTE and DST
- ❖ Automobile by Pricol Ltd
- ❖ Robotics by ABB Corp

Lab tie-ups with Talent Sprint, Heterogeneous technologies, Amazon, Zoho, EmbedUR, Amphisoft, Mr. Cooper, Vuram and Qubercomm.

STUDENT CENTRIC ACTIVITIES

- 5 days Online Induction Program is conducted to acclimatize the students to the ethos and culture of the institution, promote bonding between faculty members and students to open a new horizon of life. The following lists of activities were conducted:
 - Yoga
 - Motivational Talk
 - Personality Development
 - Road Map about Dept/Latest Trends and Opportunities
 - Placement Initiatives / Principal Orientation
 - Mathematics in Engineering Field
 - Impact of Physics in Engineering
 - Role of Chemistry in Engineering
 - Basic concepts in programming
 - Soft skill, Language skill
 - Campus Tour
 - Creative Arts and Mentoring
- In order to bridge the gap between the student, parents and teaching community, an effective tutor ward system has been established where each faculty member is assigned to a group of 20 students as their wards. They have the additional voluntary responsibility of moulding and guiding their wards in all academic & personal fronts. Tutors maintain a good rapport among parents for the betterment of student activities. Periodical Academic Review Meetings (ARM) with parents are also being conducted to improve the performance of students.
- An effective and approachable counseling cell operates in the institute for the benefit of the students. By this cell, a close advisory is possible for the students from the first day of college. The responses of the mentoring session are recorded and difficulties addressed are sorted. This has suggested significant change in their attitude to academic pursuits and they appreciate the closeness they now enjoy with their teachers.

ISR ACTIVITIES

- Mr. Daniel, AP/CSBS visited an Organic Farm and Observed the cultivation procedure. A discussion was made with innovative ideas exchanged with Mr. Joel (Farm Owner) how to yield much better without pesticides. The farm manager greeted and agreed to implement a few measures to bring much productive results on 15.01.2021
- Sports games awareness programme was conducted on 12.01.2021 to realize the importance of Physical and Mental health in women in a serene environment, at the foothills of western Ghats.
- Ms. Nivethini, student of CSBS Department of SKCET organised an Awareness Programme on the values of Hygiene and infectious diseases that could spread due to the lack of Hygiene, on 12.01.2021.
- A Poster Contest was organised by SKCET under the theme "Green Revolution" in which 125 students from Govt and Private Schools participated. Students presented their creative ideas to transform our country into a Greener India.
- A webinar on 'Sustainable Sanitation and Climate Change' was conducted for the school students on World's Toilet Day illustrating the importance of Proper sanitation and to ensure hygiene on 15.01.2021
- As a part of the outreach programs the faculty member of SoM conducted an awareness programme on corona virus and how to safeguard oneself for the people in veerapandi village on 11.01.2021 and people of P.N.palayam on 12.01.2021. They emphasized on the importance of herbals and how it will prove to be effective in the pandemic situation like this. A brief introduction was given on various herbals and the uses of it.
- A quiz contest under the title 'BE GOOD, DO GOOD' was conducted for the younger generation of school students on 08.01.2021 through online mode.
- Awareness about the importance of cleanliness and maintenance of the toilet was conducted to the nearby villages of SKCET on 08.01.2021. Various steps were narrated on how to clean the toilet and its impact on maintaining our hygiene were illustrated.
- Awareness about the importance of agriculture, use of drip irrigation in saving water, and importance of essential natural fertilizers and manures to generate more yield in the farm was narrated to the farmers in the theviam palayam village by the field experts on 14.01.2021
- A workshop on 'The importance of self-discipline' was conducted to the school students of Immaculate Heart of Mary Matriculation Higher Secondary School, was organized. Ms. Abhinaya Vadivel, the resource person conducted an eye-opening session for the student's community on 13.01.2021.
- An event on 'The Basics of Engineering' was conducted on 19.1.2020 for

self-help groups and Home makers in and around Coimbatore. Basic knowledge about the residential wiring, energy meter proper functioning, importance of earthing, replacement of damaged switches etc. was taught.

- A skill-development session to equip and hone the young diploma holders who are in search of a job was conducted on 18.01.2021 and 25 young candidates benefited from the event.
- As a part of the Energy Conservation Club activity, the department of EEE conducted an awareness program on Energy conservation on 12.01.2021. Students of EEE actively participated in the seminar.
- A workshop on 'Enlightening Youth to gain Knowledge in the Short Term Training Program on Energy Audit, Management and its Conservation in Indian Scenario' was conducted from 04.01.2021 to 08.01.2021.
- E-Waste awareness and collection campaign was organized at Sri Krishna College of Engineering and Technology, Coimbatore for the government authorized E-waste handlers at Coimbatore, under the theme of Waste Management on 08.08.2020.
- An Awareness programme on "Waste Management" for people in Saravanampatti on 12.01.2020. This public awareness was initiated and executed by III and IV MCT students. This event creates awareness among people on proper segregation of household waste and secured disposal of e-wastes.
- The department of MCT has organized a drawing competition for the students on the title "Waste Management and Pollution Control" on 16.01.2021.
- The department of MCT organized a Webinar on Industry Waste Management on 17.01.2021. The resource person Mr. J. Ramesh, Managing Director, Jai Shree ram Textiles, Rajapalayam explained about the waste management measures in industry. Industrial waste is the unwanted by-product of industrial processes.
- Students of SKCET actively organised and participated in the "COVID-19 awareness slogans writing" competition. Slogans written by our students and made visible to the public as whatsapp, facebook and Instagram status on 19.04.2020. Over 10,000+ people viewed the status of the students and were made aware of COVID19 and its impact. The need for the lockdown was also emphasized and students proved that even inside the four walls of home, they were ready to reach the mass public for the greater good.
- Artwork expressing "the need to fight COVID19 together, need to stay home paying homage to the tireless sanitary workers, doctors nurse and the need to wear masks and take precautionary means to protect ourselves" was made by SKCET students P.Kavya and G.Vijayalakshmi of II year ECE on 17.04.2020.
- Taking a pledge will remind us that we are all in this together and only with each other's support, shall we pass through this phase. In view with this, a pledge was taken by all the students and faculty of SKCET to do everything in their power to

support and give a helping hand during COVID19 lockdown period.

- SKCET has also conducted a COVID19 quiz to promote awareness among the public. An E- Certificate has been shared with the participants who passed the quiz apart from taking the pledge support against COVID19 pandemic on 20.04.2020.
- ECE students of Sri Krishna College of Engineering and Technology, Coimbatore have put their video making skills to good use and created several awareness videos. As the first step, students broadcasted these videos among the people of Bungalowpudur, village, Gobichettipalayam (tk), Erode district. The videos have also been circulated among other students, relatives and stakeholders, emphasizing on the need to stay home and stay safe.
- The Department of EEE organized a Health talk on Boost your Immunity by Dr.Balavenkat, Seniorconsultant, Anaesthesiologist,Coimbatore for the Elderly people who are at a higher risk of COVID-19 infection due to their decreased immunity and body reserves, as well as multiple associated co-morbidities. The expert guided them to stay healthy by adopting good food habits for boosting their immune system thus avoid risks towards COVID'19.
- SKCET ECE Department faculty members, organized a cooking competition as a stress buster during the depressing pandemic, on 05.11.2021. The competition was targeted to encourage healthy cooking recipes that boost immunity to fight COVID19. Over 50 participants enthusiastically sent in their recipes, demonstrating their cooking skills.
- Dr.D.Surendran and Mr.V.Arulkumar from the Mechanical department organized a webinar series on "ICT Digital Tools: Web and Mobile Teaching" through Google Meet from 24.4.2020 to 29.04.2020. The school teachers from PG Assistant Teachers from Govt Higher Secondary School Pollachi, Chennai, Anthiyur, Sular, Oomapalayam, Karur and Kalveerampalayam and Private School were trained in conducting online classes in this lockdown period.
- Dr. Ben Ruban and Mr. J. Dhiyaneshwaran, from the department of Mechanical Engineering organized a webinar on "Awareness on Social Distancing and Impact of Online Teaching to facilitate learning during the lockdown period" for the school teachers in Government, Government Aided and Private Schools in Coimbatore.
- The Department of EEE conducted a session to enlighten the home makers with healthy recipes using millet as a part of outreach activity on 29.04.2020.
- Mr. J. Prabhakaran, Assistant Professor, School of Management conducted an outreach program series (Covid 19) for home makers on 25.04.2020. Home remedies, preventive measures to safeguard from Corona, health hygiene, nutritious and balanced diet were the topics discussed.
- Department of EEE conducted a Webinar on 'Preventive Precautions for Covid-19' to the Public on 01-05-2020 at 4.00pm by Dr. ArunNatesh, MD (GM), Assistant

- Surgeon, Government Hospital, Mettur, Salem.
- Department of EEE organised a talk therapy by Mrs.R.SathyaPriya, professional Soft skill Trainer and Yoga trainer on 'TameYour Temper' to the public on 03-05-2020 for special children and Laughter.
- On request of Mr.DipanSahu of MHRD's Innovation Cell, our institute supplied the Indigenous hand Sanitizer PURA to Cygnus Group of Hospitals in Delhi and northern states due to severe shortage of the product in North India. In this regard, 1000 bottles of the sanitizer were also shipped to the hospitals in Delhi as part of SKCET's CSR activity
- Department of Mechanical Engineering in association with IIC team designed and 3D printed PLA based 'T' and 'Y' ventilator splitter to support the hospitals in need of it to fight the Corona catastrophe. The splitters were designed using Solid works software and 3D printed to perfection.
- Sri Krishna Institutions donated Food, Groceries and Vegetables worth of RS.3.5 lacs to Coimbatore Corporation for Corona Relief Work.
- Sri Krishna Institutions also donated groceries and vegetables for Ten Days usage to Perur Tasildar to help the Narikuravas Families at Arumukakoundanur and Rajasthani Ornament and Pot makers families living near Sundakkamuthur and Idayarpalayam Pirivu
- To boost our immunity and prevent not only corona but also other such viruses from attacking us, SKCET has distributed Nilavembukashayam to teaching and non teaching staff members. The NilavembuKashayam was made on the campus grounds and distributed to everyone to strengthen the immune system to fight against the deadly Coronavirus.
- Dr.Suraj Begum.R, Assistant Professor,Department of Science and Humanities of English domain organised a Webinar Series on General Grammar Points for Government Higher Secondary School students and Oxford Matriculation School students, Chennai on 30.04.2020 and 01.05.2020.
- Sri Krishna College of Engineering and Technology, as an Institution, along with Principal Dr.J.Janet, Heads of various departments, faculty members, parents and students, actively took part in an exclusionary interactive session with the government officials of Tamil Nadu regarding Combating Covid-19. The interactive session was attended by Mr. W.Suthakaran , Block Development Officer (BP), Mr. K.Ravi, Deputy Block Development Officer (Admin), Ms. S.Ananthi, Deputy Block Development Officer(pt), Ms .C.Mariammal, Deputy Block Development Officer (zonal), Mr. Rajasekar, Block Health Inspector through online live web conference to analyse the scenarios of the spread and measures to bring down the outbreak of COVID-19.
- As an initiative by the Women Empowerment Cell, Sri Krishna College of Engineering and Technology, Coimbatore, we are happy to introduce the recipe



- book "Guidelines on Value Added Products from Millets" [English & Tamil]
- The Department of Electronics and Communication Engineering has organized an online webinar on "Enabling Communication Technologies in Smart Cities" in connection with World habitat day on 03.10.2020 between 09.45 am and 11.00 am.
 - As part of World Habitat Day, faculty members of SoM have contributed in development of health and safety awareness on the theme of 'Safe City' for the younger generation by conducting the quiz contest and also provided the feedback with the answers through online for school students on 06.10.2020.
 - As part of World Habitat Day, the School of Management has conducted a Webinar on 'Employment Readiness and Requisites' to II MBA Students on 6.10.2020. Mr. Sabareesh. A, Branch Head, Quikr Homes Pvt. Ltd, Chennai has been the resource person and addressed the impact of Covid-19 in the job market. He has also conducted a Mock interview and facilitated the students to face the corporate interview panel.
 - The Department of Science and Humanities has organized an online webinar on "Green, Clean and Healthy" in connection with World habitat day on 04.10.2020 at 11.00 am to 12.00 pm. The Resource person, Dr. Kavitha Karunakaran has highlighted the points about tree planting, pollution free environment and healthy habits. She also suggested various simple steps to keep our environment clean. She concluded by saying that everybody needs a decent place to live in this world.
 - The Department of Science and Humanities has organized an online webinar on "Integrated Farming" in connection with World Soil day on 05.12.2020 at 10.00 am to 11.00am. The Resource person, Mr. K. Sathyaseelan has highlighted the points about tree planting, Integrated farming and healthy habits. He also suggested various simple steps to keep our environment clean. He concluded by saying that everybody needs a decent place to live in this world.



**PRINCIPAL
SRI KRISHNA COLLEGE OF
ENGG. & TECH.
KUNIAMUTHUR,
COIMBATORE - 641 008.**