

Velalar College of Engineering and Technology

(Autonomous)

Accredited by NAAC with 'A' Grade & Accredited by NBA

Thindal, Erode - 638 012.



NEWSLETTER

INTERNAL QUALITY ASSURANCE CELL (IQAC)

VOLUME 21

JANUARY TO MARCH 2021

ISSUE 1

Editorial Board

Chief Patron

Thiru S.S. Kandasamy,
President, Vellalar Educational Trust

Patron

Thiru S. D. Chandrasekar, B.A.,
Secretary & Correspondent

President

Dr. M. Jayaraman, Principal

Vice Presidents

Prof. P. Jayachandar,
Dean

Dr. K.R. Valluvan
Controller of Examinations

Editor in-Chief

Dr. P. Navaneetham, HoD / MCA

Associate Editors

Dr. V. Srinivasan, Prof / MCA
Ms. A.Prema, Asst. Prof / ENG

Members

Dr. S. Mangai, HoD / BME
Dr. E. Ravi, HoD / Civil
Dr. S. Jabeen Begum, HoD / CSE
Dr. M.Nisha Angeline, HoD / ECE
Dr. P. Sakthivel, HoD / EEE
Dr. V.K. Manavalasundaram HoD / IT
Dr. R. Kumaravelan, HoD / Mech
Dr. V. Chandrasekaran HoD / MDE
Dr. T. Vetrivel, HoD / MBA
Dr. M. Eswaramurthi, HoD / S&H

Message from the Principal

"Education is the most powerful weapon which you can use to change the world" said Nelson Mandela. With that vital tool of social transformation at hand, we get encouragement, looking at the bright and successful careers of thousands of our students, whose positive contribution benefits the society. We feel proud that we are part of the noble endeavor of shaping modern India. Being one of the most affected segments by COVID-19, the education sector is actively exploring various methods for content delivery, student evaluation, and effective engagement of human resources. All indications point to a future with such unexpected situations, and hence we have to prepare accordingly for the imminent paradigm shift. Technology interventions in healthcare, environment, space applications, agriculture, food processing and manufacturing processes are the prime areas of attention in the current scenario. Hence the faculty shall focus their research efforts towards thrust areas and motivate the students to come up with innovations and patents. Velalar college of Engineering and Technology is endowed with progressive futuristic outlook that aims at continual growth in the quality of all academic activities with a sense of commitment to fully meet the expectations of the students, parents and society at large with no compromise on behavioral discipline and moral integrity. I convey my best wishes to all those who contribute to the noble task of imparting knowledge in these testing times.



DEPARTMENT OF BIOMEDICAL ENGINEERING

Pograms Organized:

- One Day International Virtual Conference On Soc-A Blooming Technology For Technocrats was delivered by Er.Jishnu Radhakrishnan, Sr.Project Manager, Pantech Solution, Chennai on 17.01.2021.
- IEE-EMBS Student Branch, Velalar College of Engineering and Technology organized a Valedictory function and a Guest Lecture on the topic 'Value of IEEE Publications in Research and Career Development' on 29.01.2021. The lecture was delivered by Mr.Nanda Lal T S, Senior Training Manager, EBSCO Information Services & IEEE.

- Association of BME-BIONIKX and BMESI student chapter jointly organized a 'Cancer Awareness Quiz' on 04.02.2021. Ms.B.Tarunyasree- II BME 'B' section was awarded 1st prize, Ms.R.Sindhu –III BME 'B' section won 2nd prize and Ms.R.Snega – II BME 'B' section got 3rd prize.
- A Webinar on Prostate Cancer - Early Detection Screening Cards was delivered by Dr. Ram Abhinav, Medical Oncologist, Kovai Medical Centre and Hospital, Coimbatore on 04.02.2021.
- A Webinar was organized on the topic 'Holistic Approach in Biomedical Engineering' on 16.3.2021. Dr.B.Balasubramanian, Vice Chairperson, IEEE-EMBS, Madras Section and HOD/BME, Excel Engineering College, Namakkal was the Chief Guest and resource person.
- In association with IEEE student branch - EMBS and Department of EEE, the Department of BME organized an

inaugural function of IEEE-EMBS Student Branch, Velalar College of Engineering and Technology on 16.03.2021 and five days Hands on Training Program on 'Industrial Internet of Things with Real Time Data Logging' by SAI Incubation Center for Embedded and IOT Systems from 16.03.2021 to 20.03.2021.

MoUs Signed

Memorandum of Understanding signed with

- M/S VI Solutions, Bangalore signed on 01.02.2021 for one year
- Sai Incubation Center, Coimbatore signed on 18.01.2021 for continuous activity.

DEPARTMENT OF CIVIL ENGINEERING

STTP Phase-III

A six day AICTE sponsored online Short term training program (STTP) Phase – III on 'Geotechnical Engineering' was conducted from 15.02.2021 to 20.02.2021. 85 faculty members successfully participated in the program.



Association Activities

Guest Lecture: In association with The Institution of Engineers (India) – Erode Local Chapter a guest lecture was organised on 'Reuse and Recycling of Water Management' in view of World Water Day.

Placement Activities

N.Monisha and N.Shanmuga Priya of final year got placed in M/s Focus Edumatics, Bangaluru.

Student Activities

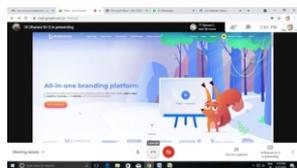
- Dharani.R of second year awarded Elite + Gold and other 05 students were completed the NPTEL online certification course on 'Glass in buildings Design and application' successfully.
- Mayurii P of third year was secured topper of 1% and other 04 students completed the NPTEL online certification course on 'Glass Processing Technology' successfully (03 – Gold and 01 - silver)

Consultancy/ Testing Activities

- **Dr.E.Ravi** and Ms.A.Anitha, generated an income of Rs.11,000/- through testing of concrete cubes and bricks.
- **Dr.E.Ravi** and Mr.C.Kathik, generated an income of Rs.8,000/- through testing of soils.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

- **Dr.S.Jabeen Begum**, Dr. V. Latha Jothi, Dr.S.Kayalvili organized an AICTE sponsored STTP(Rs. 3,36,667) on “Internet of Things with Blockchain – Applications and Challenges” from 04.01.2021 to 09.01.2021 (Series – 2) and from 01.02.2021 to 06.02.2021 (Series – 3)



- A Workshop on “Adobe Photoshop” was organized on 27.02.2021.
- CSI Student Branch conducted “Intra CSI Meet” on 24.03.2021 and members of CSI actively participated in the events and won prizes.
- A Workshop on “3D Animation” was organized on 31.03.2021.
- 64 Students from CSE and IT enrolled for CSI Student Branch membership.

Association Activities

- A Webinar on 'Google Analytics' was organized on 30.01.2021. Mr.P.Karthick, Technical lead, Wipro Technologies, London was the resource person.
- A Two Day Workshop on 'Artificial Intelligence' was organized on 02.02.2021 & 03.02.2021.
- A Webinar on “Non Programming Skills in IT Infra Services” was organized on 13.02.2021.
- A coding event “CODE-O-PHILIA” was conducted on 14.02.2021.
- A Technical Quiz on “Data Structure” was conducted on 27.02.2021. More than 150 students have actively participated and got benefitted.
- A Webinar on “How Data Science is changing the world?” was conducted on 03.03.2021.
- A Webinar on “Blockchain Technology” was conducted on 06.03.2021.
- A Skill Development Programme on “Career Awareness & Skill Development Programme” was conducted on 13.03.2021.



Placement Activities

- Baby R, Ilakya T, and Sankar Ganesh B got selected in Cognizant Technology Solutions India Pvt. Ltd., (CTS), for the position of Programmer Analyst Trainee , CTC Offered Rs.4,00,000 per annum.
- Premalatha.C got selected in WIPRO Technologies, Chennai, for the position of Project Engineer, CTC Offered Rs.3, 50,000 per annum.
- Meenakshi Sundaram.P.R got selected in MSC Technology, Chennai, for the position of Junior Developer – Biztalk, CTC Offered Rs.3, 50,000 per annum.
- Usha.U got selected in Iamneo, Coimbatore, for the position of Product Developer, CTC Offered Rs.3, 00,000 per annum.
- Anton Joe A & Hari Sudhan S got selected in FACE prep, Coimbatore, for the position of Placement mentor, CTC Offered Rs.3, 06,000 per annum.
- Vasanth.M got selected in VinsInfo Pvt., Ltd., Chennai, for the position of Associate Developer, CTC Offered Rs.2, 14,000 per annum.
- 11 students got selected in DXC Technologies, Chennai, for the position of Associate Professional Engineer, CTC Offered Rs.3, 60,000 per annum.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Programs organized

- A webinar on 'Role of Electronics and Communication Engineers in Future World' was conducted on 11.01.2021.
- One day International Virtual Conference on 'SOC- A Blooming Technology for Technocrats' was conducted by VCET in association with Pantech Solutions,
- A 5 Day Online Industrial Training Program on 'Industry 4.0' was conducted from 18.1.21 to 22.01.21.
- A Ten day Value-added practical course on 'Design and Implementation of Embedded systems using Arduino' was conducted in Association with Edgate Technologies, Bangalore from Feb 11 to Feb 20.
- Online Motivational Programme for Schools & College students on 'Smart Engineers Make the World Smarter' was conducted by VCET in association with Pantech Solutions on 28.02.2021.
- IETE Sponsored one-week online Value-added course on 'Arduino using Tinker CAD' was conducted from 15.03.2021 to 21.03.2021.



Association Activities

- Online motivational programme was conducted for pre-final year ECE students by MNC placed ECE final year students on 20.02.2021.
- IETE Sponsored Intra-departmental Event and Guest Lecture was conducted on 26.03.2021.



Placement Activities

- 11 final year ECE students got Placed in Tata Consultancy Services on 02.03.2021.
- 26 final year ECE students got Placed in VPG Sensors, Chennai on 20.01.2021.
- 7 final year students got placed in Webberax, Chennai on 12.02.2021.
- 2 final year ECE students got their offer in FACE, Coimbatore on 24.02.2021.
- 22 ECE final students got placed in Hyoseong Electric Pvt. Ltd., Chennai on 20.03.2021.
- 48 students of final year ECE got placed in Focus Edumatics, Coimbatore on 19.03.2021.
- Totally 180 offers are received by ECE students. Totally 139 students got placed among them dual offers are 29 and triple offers are 6. Percentage of placement of ECE department is 92%.
- 21 Prefinal year ECE students have passed Wipro future skills test.

Students Activities

- 133 ECE Students attended the '30 days AI Master Class Using Python' organized by Pantech Prolabs India Pvt. Ltd., from 16.02.2021 to 17.03.2021.

- 122 Students attended a Ten day Online Value-added course on 'Design and implementation of Embedded systems using Arduino' from Feb 11. to Feb 20..
- 155 students attended the IETE Sponsored One week value added practical course on 'Arduino using Tinkercad' from 15.03.2021 to 21.03.2021.
- 154 Students have successfully completed a Five day Online Industrial training program on 'Industry 4.0' conducted from 18.01.2021 to 22.01.2021.
- 463 Students attended the one-day International Virtual Conference on 'SoC – A Blooming Technology for Technocrats' on 17.01.2021.
- 393 school and college students attended the online motivational Programme on 'Smart Engineers Make the World Smarter' organized on 28.02.2021.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

- A Six day AICTE sponsored online Short-Term Training Program on 'Solar Energy Conversion Systems: Technologies, Design and Applications', Slot 2 was conducted from 18.01.2021 to 23.01.2021 and Slot 3 was conducted from 15.02.2021 to 20.02.2021
- Mr.K.Rajaram, IEEE SB branch counsellor has organized IEEE inaugural event on 16.03.2021.

Placement Activities

- 18 Students were placed in Hyoseong Electric India Private Limited.
- 23 students were placed in Focus Edumatics.
- 28 students were placed in Sakthi Auto components Limited.

DEPARTMENT OF INFORMATION TECHNOLOGY

- A Motivational Speech on 'Be yourself and Start Flying' was conducted on 20.02.202.
- A 'Career Guidance Programme' was conducted on 27.02.2021.
- A webinar on 'Skilling Yourself' was conducted on 13.03.2021.
- A Seminar on 'Introduction to Database Management System' was conducted on 13.03.2021.



Placement-Activities:

- R. Nandha, B. Praveen kumar, S. Rajavignesh, S. Ravikumar, G. Saranya and K. Vishnupriya of Final year have got placed in Webbrax.
- 15 Final year students have got placed in Focus Edumatics.

Student activities

- S. Deekshana, completed the course 'Data Analytics with Python' conducted by My Captain from 01.02.2021 to 28.02.2021.

- H. Renuka, J. P. Sabeela, K. Poovarshini Nanthithaa completed the course 'Fundamentals of Communication' and 'Effective Communication conducted by Infosys on 18.03.2021
- S. Deekshana, attended the workshop 'Cyber Security' and 'Electric Vehicle Design' conducted by Andhra Pradesh State Skill Development Corporation, Department of skills & training from 19.02.2021 to 20.02.2021
- 4 students attended the workshop 'Microsoft AI Classroom Series' conducted by Microsoft on 12.03.2021
- 10 students attended an online webinar on 'AI Master Class using Python' conducted by Pantech Solutions on 16.02.2021 To 17.03.2021
- S. P. Karunambiga presented a paper on 'Immersive Technology' conducted by CSI, VCET on 24.03.2021.
- 40 students of final year attended an International conference on 'Advanced Science and Engineering Research', and presented the papers conducted by Al-Ameen Engineering College on 29.03.2021.
- 12 students of final year attended Internship Training conducted by Pantech Prolabs India Private Ltd.,
- 7 students of final year have been in Field work on various companies for a period of 170 days.
- 4 students of final year have been in Field work on 'Web Based Online Document processing for Educational Institutions' by Velalar College for Women for 90 days.
- 2 students of final year have been in Field work by DXC Technologies, Hyderabad for a period of 60 days.
- 4 students of final year have been in Field work on Globus Ltd., Coimbatore for a period of 22 days.

DEPARTMENT OF MECHANICAL ENGINEERING

Association Activities:

- Organized a webinar on 'Career Opportunities for Mechanical Engineers' on 15.02.2021.
- Organized a webinar on 'Mechanical Engineering – A Sheer Gear for Tomorrow' on 27.02.2021.
- An Intra-departmental Paper presentation event on the Activity day on 30.03.2021.



Placement Activities:

- 92 final year students have attended virtual campus recruitment drive conducted by M/s. Indium Software Pvt., Ltd., Chennai on 12.01.2021.
- 92 final year students have attended virtual campus recruitment drive conducted by M/s. Maventic Innovate Solutions Pvt. Ltd., Chennai on 21.01.2021.
- 35 final year students got placed in M/s. Hyundai Steels, Chennai on 23.01.2021.
- 92 final year students have attended virtual campus recruitment drive conducted by M/s. TNQ Technologies,
- 76 final year students have attended virtual campus recruitment drive conducted by M/s. Infosys, Chennai .
- 53 final year students have attended virtual campus

recruitment drive conducted by M/s. Focus Academy for Career Enhancement on 24.02.2021.

- 9 final year students got placed in M/s. Focus Edumatics on 18 & 19.03.2021.
- 84 final year students have attended Virtual Campus recruitment drive conducted by M/s. Sakthi Auto Components Pvt. Ltd., on 27.03.2021.

Students Activities:

- Final year students K. Velmurugan, S. Kiruthika, R. Kamali and S. Nagendiran presented paper on 'Analysis on unsteady heat transfer and fluid flow through sensible heat storage system' conducted by Nadar Saraswathi College. .
- Final year students A.S. Narandhiran, K. Revanth, S. Prakash and R. Prakash presented a paper on 'Study of mechanical behaviour of aluminum alloy based composite material' conducted by Al-Ameen.
- Final year students K. Thirukumar, S.K. Sukesh Raja, S. Sutheshkrishnan presented paper on 'Tribological characterization of hybrid aluminum composite materials' conducted by Al-Ameen
- Second year students A. Vimal Vincent, D. Praveen, presented a paper on 'Salt water engine' at M L R Institute of Technology on 01.04.2021.
- 6 students presented papers on various topics in intra departmental paper presentation events in VCET, Erode.
- T. Jithendar Kumar, M.S. Jagan, S. Kamalash, V. Gobinath, R. Saravanan, R. Sathish and S. Nithin has participated and won III prize in Zonal Cricket sports event conducted by Nandha Engineering College.

DEPARTMENT OF MEDICAL ELECTRONICS

Programs organized

- Students' Association Medieclitix, Med Tech Club organized Quiz Contest on the topic Medical Imaging Systems on 30.01.2021. Around 150 Students from various colleges participated and benefitted.
- International Women's Day was celebrated by conducting Mehendi Competition on 13.03.2021 with the theme "Women in leadership: Achieving an equal future". In this programme around 250 students and 50 faculty members participated.

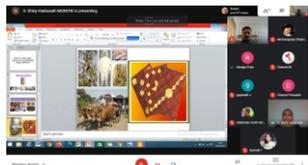
Students Activities

- R. Saranya of third year medical electronics completed the course "Complete Python Bootcamp/Deep learning into Python coding" on 28.03.2021.
- S. Sanjeevprasath and M. Boopathirajan of third year medical electronics secured third place at Zreyas 2021. National level Symposium conducted by Gender Equality club of Kongu Engg. college on 17.02.2021.
- Koushik.R and J.Y. Ameena mafaza of Second Year medical electronics have participated in Paper presentation colloquium organised by National institute of technology (NIT), Trichy on 26.02.2021.
- M. Jeevitha of Second year medical electronics has attended inplant training in "Embedded systems and real

time application” from 21.01.2021-25.01.2021 in CritaC Infotech, Namakkal.

DEPARTMENT OF MBA

• Organized webinar on “Expectations of MNC's from MBA Professionals” on 27.01.2021. Shri. P.Kumaresan (MBA Batch: 2006-2008), Operations Manager, Wells Fargo (US Bank), Chennai was the resource person.



• Organized webinar on “Impact of Crypto-currency Business in India” on 08.02.2021. Dr. Dinesh Elango (MBA Batch: 2009-2011), Lecturer, Graduate School of Business, Assumption University of Thailand, Bangkok, Thailand was the resource person.

• Organized webinar on “Digital Marketing: Significance and Trending Strategies during Covid-19” on 10.03.2021.

Seminar: Organized a seminar on “Need of Hour – Swami Vivekananda's Way's” on 11.01.2021. Dr. Sri. A. Kalanidhi, Former Vice- Chancellor, Anna University, Chennai was the resource person.

Guest Lecture: Organized Guest Lecture on “Goods and Services Tax and its impact in India” on 11.03.2021.

Workshop & Training Programme:

• Organized along with EEDISSIA, Erode, a one Day Training Programme on “Sales and Marketing Strategies for the Entrepreneurs” on 26.02.2021.

• Organized Workshop on “Entrepreneurship with Business Plan in Action” on 18.03.2021, Ms. Shiny Hadassah, Trainer, Rural Entrepreneurship Development Cell (REDC), Govt. of India, Andrapradesh was the resource person.



DEPARTMENT OF MCA

• A Seminar was organized through on-line mode on the topic “Enterprise Resource Planning” on 07.01.2021.

• A Webinar was organized through on-line mode on the topic “Intellectual Property Rights in India” on 12.02.2021.

• Online Workshop on has been conducted on the topic “Web Programming” on 22.03.2021

DEPARTMENT OF ENGLISH

Association Activities- The English Literary Association and Toastmasters' Club of VCET conducted various online activities.

- An event 'Slogan Master' was conducted under the topic 'Create your Nation of Imagination'.
- An event named 'The Reviewer', was conducted.
- A program 'Guess Me' was conducted for the first year.
- An event 'Spell Bee' was conducted for the first year.

- The program 'Brain Teaser' was conducted.
- Conducted an E-Quiz on Enriching English Language Skills exclusively for the first year BE/B.Tech students.

DEPARTMENT OF MATHEMATICS

Department of Science and Humanities organized an online seminar on 'India's Freedom struggle' to commemorate 75 years of India's Independence (AZADI KA AMRUT MAHOTSAV) on 12.3.2021.



Association Activities

• Science club- PHENMACH of the department of Science and Humanities conducted an online Science Quiz for the students. On the eve of National Science day.

• Science club- PHENMACH of the department of Science and Humanities organized a virtual lecture on 'Appreciate the Scientist, but thank the Engineer' to commemorate the National Science day on 27.02.2021.

• To expose the creativity and subject knowledge, Mathematics Colloquium of Department of Mathematics conducted Poster Making Contest under the topic 'Applications of Calculus in Engineering' for First year B.E/B.Tech students.

Rotaract Club Activities

• The event in the name of Tamilar Panbadu was conducted to recreate the Tamil panbadu on 25.01.2021.

• Polio drops to the children at Thindal on 31.01.2021.

• Heart Check up Camp in the name of "Gift of heart" at Rotary CD hall, Palayapalayam on 28.02.2021.

• First official meeting at VCET Campus on 13.03.2021

• Organic farm for future engineers at VCET Campus on 15.03.2021.

• Donated foods to the people near Elumathur bus stop on 16.03.2021



CONFERENCE / WORKSHOP / SEMINAR / FDP PROGRAMS ATTENDED BY FACULTY

• 4 programs were attended by faculty members in the department of Bio Medical Engineering

• 15 programs were attended by faculty members in the department of Civil Engineering

• 13 programs were attended by faculty members in the department of Computer Science Engineering

• 52 programs were attended by faculty members in the department of Electronics and Communication Engineering

• 2 programs were attended by faculty members in the department of Electrical and Electronics Engineering

• 47 programs were attended by faculty members in the department of Information Technology

• 15 programs were attended by faculty members in the department of Mechanical Engineering

- 11 programs were attended by faculty members in the department of Medical Electronics
- 2 programs were attended by faculty members in the department of MBA
- 7 programs were attended by faculty members in the department of Chemistry.

LECTURES / KEY NOTE ADDRESS / NPTEL / CONFERENCE PRESENTED BY FACULTY

Department of Bio-Medical Engineering

Dr.S.Mangai was the resource person for AICTE Sponsored Faculty Development Programme –Phase III Organized by the Department of ECE, Sreenivasa Institute of Technology and Management Studies, Murukambattu, Chittoor, Andhra Pradesh on 'Machine Learning and Deep Learning- An Application Perspective'.

Dr.N.Jeyashanthi has successfully completed the NPTEL online certification (8 weeks) course funded by the ministry of HRD, Govt. of India, IIT Kharagpur.

Dr.P.Ravikumar and **Mr.N.N.Baalakumar** has successfully completed the NPTEL online certification (8 weeks) on the title 'Bioengineering: An interface with Biology and Medicine'.

Department of Civil Engineering

Mr.C.Karthik Associate Professor delivered the lecture on 'Stability of Slopes' in the AICTE sponsored online STTP Phase –II on 'Geotechnical Engineering' was conducted during 15.02.2021 to 20.02.2021.

Mr.C.Pranesh presented a paper on 'Experimental Study of Brick With Industrial Sludge and Coconut Coir' in International Virtual Conference on Smart Advanced Material Science and Engineering Application organised by K.L University, Guntur.

Mr.D.Sakthivel and **Mr.S.Ramesh Kumar** presented a paper on 'Treatment of Waste Water by Using Fruit Peel' and 'Grey Water Reuse – A Conservation Approach' in the National level Virtual Conference on Recycling and Reuse of Plastic Waste and organised by Dr.N.G.P. Coimbatore.

Department of Computer Science And Engineering

Dr.S.Kayalvili presented a paper titled “An efficient resource allocation for cloud computing using KNN with Naive Bayes algorithm” and **Dr.S.Gokulraj** presented a paper titled “Secure File Storage Using Hybrid Cryptography” in International E-Conference on Recent Advances in Computation, Communication, Internet of Things and Artificial Intelligence, M.Kumarasamy College of Engineering on 31.03.2021.

Ms.S.Vishnupriya and **Ms.S.Ponni** successfully completed the course “Effective Engineering Teaching in Practice” in NPTEL with Elite certificate during March.

Department of Electronics and Communication Engineering

Prof.P.Jayachandar and **Dr.M.Nisha Angeline** acted as resource person in a webinar on 'Role of Electronics and Communication Engineers in Future World' at VCET.

Dr. K. R. Valluvan acted as resource person in a one-day International Virtual Conference on 'SoC – A Blooming

Technology for Technocrats' on 17.01.2021 and delivered a special lecture on the topic 'Evolution of SoC: From Silicon to Future Nanoscale Era'.

Dr.M.Parimala Devi acted as resource person in a one-day International Virtual Conference on 'SoC – A Blooming Technology for Technocrats' on 17.01.2021 and delivered a special lecture on the topic 'Necessity, Challenges and Fabrication of SoC – An Application Point of View'.

Dr. K. R. Valluvan acted as resource person in Online Motivational Programme for Schools & College students 'Smart Engineers Make the World Smarter' on 28.02.2021 and delivered a special lecture on the topic 'Scope of Engineering in Future World'.

- The faculty members **Dr.K.R.Valluvan**, **Ms.T.Sathya**, **Ms.P.Ragavi** acted as the resource persons in a 5 Day Online Industrial Training Program on 'Industry 4.0' conducted from 18.01.2021 to 22.01.2021.
- The faculty members **Dr.V.Gowri Shankar**, **Ms.S.Pavithra**, **Ms.R.Mohanabarathy** acted as the resource persons in a one-week online Value-added practical course on 'Design and Implementation of Embedded systems using Arduino' conducted in Association with Edgate Technologies, Bangalore from 11.02.2021 to 20.02.2021.
- Five faculty members acted as the resource persons in IETE Sponsored one-week Online Value-Added Course on 'Arduino using Tinker CAD'.
- Six faculty members presented their paper in the '10th International conference on Advanced Science and Engineering Research 2021' conducted by Al-Ameen Engineering College, Erode on 29.03.2021.

Ms.R.Mohanabarathy and **Ms.M.Ruba** presented a paper Framework on Integrated Quad Purpose Water Quality Monitoring in the International Conference on Intelligent Robotics, Mechatronics and Automation Systems conducted by VIT, Chennai on 26.03.2021 and 27.03.2021 and received best paper Award.

Ms.V.Aarthi, **Ms.C.Santhini**, **Ms.V.Sakthi Priya** and **Ms.R.Mohanabarathy** successfully completed 12 week NPTEL course on 'Digital Circuits' with 'Elite Tag'.

Ms.M.Shivaranjani and **Ms.M.Ruba**, successfully completed 12 week NPTEL course on 'Digital Circuits' with 'Elite and Silver Tag'.

Ms.R.Mohanabarathy successfully completed 8 week AICTE- NITTT 2021 course on various topics.

Department of Information Technology

Dr.V.Srinivasan presented a paper, 'Android Based Tourist Guide System' in an International conference, Advanced Science and Engineering Research, conducted by Al-Ameen Engineering College on 29.03.2021.

Ms. T. Premamala presented a paper, 'Multi-stage CNN Architecture for Face Mask Detection' in Al-Ameen Engineering College.

Ms. M. Shanthamani presented a paper, 'COVID 19 Future Forecasting using Deep Learning' and 'A Real-Time Approach for Abnormal Transaction Analysis' in an International conference, '(ASER) conducted by Al-Ameen.

Ms. T. Nithya presented a paper 'Secure Key Agreement and Key Protection for Mobile Device User Authentication' in Al-Ameen Engineering College..

Mr. C. Saravanan presented a paper 'Information Security Detection Method based on Improved PCA and PBNeural Network' and Vehicle Instance Segmentation using CNN' in Al-Ameen Engineering College.

Ms. S. Kiruba presented a paper 'Improving the efficiency of Health system using Machine learning' and 'Social Distance Detection using Deep Learning model' in Al-Ameen Engineering College

Mr. T. Kokilavani presented a paper 'Cloud storage security assessment through Equilibrium Analysis' and 'Predicting Students GPA based on Self-Regulatory Learning Behaviour' in Al-Ameen Engineering College

Department of Mechanical Engineering

Mr.V.Mohankumar, 'Design of Multipurpose Sieving Machine' in International Conference on Materials, Manufacturing, Robotics, Automation, Artificial Intelligence and Networking for Industry 5.0 conducted by Excel Engineering College.

Mr.M.Gokul and **Mr.V.Mohankumar**, 'Analysis on Unsteady Heat Transfer and Fluid Flow Through Sensible Heat Storage System' in International Conference on New Scientific Creations In Engineering and Technology conducted by Nadar Saraswathi College of Engineering and Technology on 19.03.2021.

Mr.E.Ajai Kumar, 'Study on Mechanical Behaviour of aluminium Alloy Based Composite Materials" in International Conference on Advanced science and Engineering Research conducted by Al-Ameen

Department of Medical Electronics

Dr. M. Pravin Kumar completed NPTEL course on "Effective Engineering Teaching in Practice" conducted by Indian Institute of Technology, Madras from January 2021 to February 2021 and secured **Elite**.

K.S.Kausalya devi completed NPTEL course on "Genetic Engineering: Theory and Application" conducted by IIT KHARAKPUR.

K.Vanitha, P.Poornima completed NPTEL course on "NBA Accreditation and Teaching-Learning in Engineering" conducted by IISc Bangalore,.

Department of MBA

Dr.T.Mohanapriya acted as a resource person and delivered a lecture on the topic, 'Role of Technology in driving Digital Payment' Organized by Department of Commerce and Commerce (CA), St.Antony's College of Arts and Science, Salem on 03.02.2021.

Dr.T.Mohanapriya acted as a resource person and delivered a lecture on the topic, 'Investors Awareness Programme' Organized by AVS College of Arts and Science.

Dr.T.Mohanapriya acted as a resource person and delivered a lecture on the topic, 'Smart Investing: Time to rebalance Your Investment Portfolio' Organized by St.Joseph College, Tiruchy on 22.02.2021.

Dr.T.Mohanapriya acted as a resource person and delivered a lecture on the topic, 'Investors Awareness Programme' Organized by Bharathidasan School of Management (BSM), Tiruchy on 26.02.2021.

Department of Chemistry

Ms. M. Priya presented a paper titled 'Thermodynamic and Electrochemical studies for corrosion inhibition of mild steel in acidic medium by shrimp waste' in the national conference on multidisciplinary research in Science and Humanities at Arasu Engg. College, Kumbakonam.

Department of Physics

Ms.S.Ranjitha, presented paper on the title 'Synthesis and morphological analysis of Bismuth sulfide with Copper for Photovoltaic Applications' in the International Conference on Nanoscience and Nanotechnology, organized by SRM Institute of Science and Technology.

JOURNAL PUBLICATIONS BY FACULTY MEMBERS

Department of Bio-Medical Engineering

Dr.S.Mangai, 'Automated Wearable Cardiac Pulse Regulator', International Journal for Science and Advance Research in Technology (IJSART), Vol. 7, No. 4, ISSN 2395-1052, March 2021.

Dr.S.Mangai, 'A Smart Transportation System In VANET based on Vehicle Geographical Tracking and Balanced Routing Protocol', International Journal of Communication systems. ISSN: 1074-5351, March 2021.

Abarna B., **Gokul Surya S.**, **Gokul V.** and **Mahesh Chandran K.**, 'Automated Wearable Cardiac Pulse Regulator' International Journal for Science and Advance Research in Technology, Vol.7, No.4, ISSN : 2395-1052.

Department of Computer Science and Engineering

Ms. D.Nithya, **Ms. P. Kiruthiga** published a paper "Contemporary PCA and NBA based Hybrid Cloud Intrusion Detection System" EAI Endorsed Transactions on Energy Web, February 2021.

Dr.V.Latha Jothi, published a paper "A Secure Browser for Detecting Phishing Websites", International Journal of Creative Research Thoughts, Vol.9, Issue 3, pp 2461-2465.

Dr.V.Latha Jothi published a paper "Survey on Forecasting the vulnerability of Covid 19 in Tamil Nadu", Journal of Physics – Conference Series, ICDIIS 2020, indexed in Web of Science, pp. 1-12, February 2021.

Ms.S.Vishnupriya and **Ms.S.Ponni** published a paper "Enhanced Crow Search Algorithm for Task Scheduling in Cloud Computing", IOP Conference Series: Materials Science and Engineering (MSE), February 2021.

Department of Electrical and Electronics Engineering

Dr.C. Gokul, 'An integrated system for smart industrial monitoring system in the context of hazards based on the internet of things', International Journal of safety and security Engineering', ISSN:2041-9031, Vol.11, No.1.

Mr.J. Senthilnath, 'Design and Implementation of thyristor based automatic on load tap changer for constant output voltage using ANN & IoT', Suraj Punj Journal for Multidisciplinary Research, ISSN:2394-2886, Vol11, Issue4, Page no:444-450, April 2021.

Department of Mechanical Engineering

Dr. A. Thirumoorthy, Dr. R. Kumaravelan, Mr. T. C. R. Dinesh, 'Parametric optimization of high speed turning operation of hybrid aluminium composites using Taguchi – based grey relational analysis' in an International Journal of Computational Materials science and surface Engineering, ISSN 1753-3465, Vol-9, No.4, pp.261-281.

Mr. A. T. Navinprasad, Mr. R. Prakash, Mr. K. Ramakrishnan, 'Experimental Investigation of Nickel Oxide Nanomaterials with n-Pentane Diesel Blends in Compression Ignition Engine' in IOP Conf. Series: Materials Science and Engineering, ISSN 1757-899X, Vol-1070, Issue-012126, February 2021.

Dr. R. Kumaravelan, 'Automatic Barrier Control in the Zebra crossing of Roads for Pedestrian Safety' in IOP Conf. Series: Materials Science and Engineering, ISSN 1757-899X, Vol-1070, Issue-012126, February 2021.

Department of Information Technology

Dr. V. Srinivasan, 'Android Based Tourist Guide System' in IJAICE International Journal on Applications in Information and Communication Engineering, ISSN: 2394-6237, Volume 7, Issue 1, March 2021.

Department of MBA

Dr. T. Vetrivel, 'Empirical study on Buying Behaviour of selected durable Goods with reference to the Female Consumers', International Journal of Business Innovation and Research, Vol.No:24, Issue No:4, pp.494-513.

Department of Chemistry

Ms. M. Gowri, 'Water quality assessment of ground water in the villages of Vembathi Panchayat, Anthiyur Taluk, Erode district, Tamilnadu,' IAETSD Journal for Advanced Research in Applied Sciences, ISSN NO: 2394-8442, Volume VIII, Issue II, Pages 32 – 35 February 2021.

BOOK PUBLICATIONS

Dr. S. Sadesh published a book titled “Knowledge Management” by The Charulatha Publications on Feb 2021.

Dr. R. Kumaravelan published a book on 'ME 8493- Thermal Engineering-I' by Sri Krishna Hitech Publishing Company Pvt Ltd, Feb 2021. (ISBN No: 978-93-89878-33-2)

Dr. K. Manikandan, Dr. S. Kalai Selvi, L. Umamaheswari, D. Umamaheswari Published a book ' Engineering Chemistry' by KKS Publishers, ISBN: 978-93-83216-32-1

Dr. K. Rathi has contributed a Book chapter entitled 'A Mathematical approach for the selection of Renewable energy sources to progress towards Sustainable Energy' for the book Energy and Power with ISBN 978-81-947019-5-8

RESEARCH ACTIVITIES

Award of PhD

Ms. V. Aarthi, Assistant Professor (Sr.Gr.)ECE, completed her Doctoral degree from Anna University, Chennai, on 08.03.2021 and published 11 papers in International Journals, 5 papers in National Conferences and 8 papers in International Conferences. Her areas of interests are Error Correction Codes, Information Coding Theory, MIMO-OFDM and 5G.



Patent

Dr. R. Kumaravelan, published a patent on 'Development of IOT Household Health Safety System', (Patent Application Number: 202141012686)

Mr. K. Rajaram, 'Smart weightment and centralized payroll reckoning machine for tea Plantations', patent filling a application date: 25.02.2021, Publication date: 05.03.2021, Application no: 202141007927.

Ms. S. Vishnupriya, Ms. S. Nithya and Ms. S. Ponni filed and published a patent on the title “Recommendation of Doctors Based on the Ratings and Tracking Status of Doctors Availability to Handle the Pandemic Situations” on 05.02.2021. (Application Number: 202041057559)

Dr. S. Rajan and Dr. M. Kalamani Published a Patent on 'Smart Weighment and Centralized Payroll Reckoning Machine for Tea Plantations' on 05.03.2021. [Ref.No:25/02/2021 & 202141007927].

Copyright

Dr. S. Sadesh filed and published a copyright titled “Automatic Clustering Based Updation of User Behavioral Profiles for Personalized Search Result on Web” on March.

Dr. S. Mangai received copyright for the paper 'Certain studies on improving the performance metrics in Multimodal Biometric System using Optimization techniques' with Registration Number L-100625/2021 published on 23.03.2021.

Dr. M. Parimala Devi, Mr. G. Boopathi Raja, Dr. V. Gowrishankar, Ms. T. Sathya and Ms. K. Kavitha registered a copyright on 'Multiplexer Approximation Logic based 4*4 Dadda Multiplier using Carry Look Ahead Adder' on 08.03.2021. [Reg.No:SW-14255/2021].

Dr. S. Mahendrakumar registered a copyright on 'Investigation on Performance Testing of Smart Antenna in Wireless Ad Hoc Networks' on 31.03.2021. [Reg. No:L-101128/2021]

Award / Recognitions

Dr. S. Sadesh received an award “Active SPOC” from NPTEL IIT Madras in January 2021.

Velalar College of Engineering and Technology

(Autonomous)

Thindal, Erode - 638 012, Tamilnadu.

Phone: 0424 2244201, 2244202, 2244203, 2244204, 2244206 FAX: 0424 2244205

Email: principal@velalarengg.ac.in, velalarengg@rediffmail.com, Web: www.velalarengg.ac.in