

## **AEC Chronicle**

**NEWS LETTER** 

Volume: 4, Issue: 2



### **Annapoorana Engineering College**



FOUNDER CHAIRMAN & MADAM FOUNDER CHAIRMAN

Annapoorana Engineering College (AEC) was promoted by the famous Thirumuruga Kirupananda Variyar Thavathiru Sundara Swamigal Medical Educational and Charitable Trust (TKVTSSMEC Trust) in the year 2010. The trust is a pioneer in offering higher education for over 3 decades in the fields of Medicine, Engineering, Dental, Pharmacy, Nursing, etc., It is always striving to impart quality education to all the students by providing state of art facilities, good academic ambience, opportunities to interact with top academicians / professionals and right motivation to take part in co-curricular and extracurricular activities. Thereby enabling them to develop deeply into the aspects of modern technology.

No account of the history can be complete without remembering the pioneering work of our **Founder Chairman Dr.A.Shanmugasundaram**. It is the philanthropy of our Founder Chairman that has made this College - a seat of Social Reform Movements, Cultural Renaissance and Intellectual Awakening for the young men and women of many - in this part of the country.

Annapoorana Engineering College is becoming a shining example of 'inclusive' culture providing quality education to students belonging to socially deprived groups. In this sense, this college is proving to be fore-runner to the principle of social justice that was powerfully enunciated and enshrined in the constitution of Indian Republic. It aims at producing "Industry Ready World-Class Engineers".

#### Alumni Meet – 2021



The Alumni Association of Annapoorana Engineering College conducted Alumni Meet for the year 2021 "AECIANS21" on 21.03.2021 at Dr.Vishveshvaraya Hall. Dr.O.Saravanan, Head / CSE welcomed the gathering. Dr.A.Anbuchezian, Principal felicitated the gathering and presided over the function. **Dr.P.Gnanasekar Director** –

IQAC, Vinayaka Missions Research Foundation (Deemed to be University), was the Chief Guest and addressed the gathering with his motivating speech for the students.

Mr.T.M.Ravindhiran, U-Tuber, Pasumai Viwasaya Ulagam was the special guest and during his speech he clearly explained the path he has come across in becoming a successful U-Tuber with over Two Lakhs viewers and Followers.

During the program, the Alumni members also shared their views as to how their college has become the pillars for their successful lives and they whole-heartedly pointed out that "Annapoorana Engineering College is their real temple of learning". There were nearly 300 alumni members gathered and refreshed their everlasting memories. Culturals and Momento distribution formed part of the event. Towards the end of the program Mr.R. Arularumugam, Assistant professor, ECE proposed the vote of thanks.



One-day seminar on "New Technology for Entrepreneurs"

A one-day seminar on 'New Technology for Entrepreneurs' was held on behalf of the Department of Chemistry at Annapoorana Engineering College, Periyaseeragapadi, Salem. Dr.V.Anbazhagan, Principal of Vinayaka Missions Kirupanandavariyar Arts and Science College was the special guest. The ceremony was presided over by the Principal of the College Dr.A.Anbuchezian. Speaking on the occasion, the special guest said that if we want to succeed in the industry, we need to understand that everything we see in our daily lives is the product of the work of many unnamed people in the industry, without the fear of heavy machinery and the need to invest millions, and that engineering students should become entrepreneurs who give employment to others rather than job seekers. He also listed the professions created by the leaders of many companies and their nuances.

First Year Dean Dr.O.Saravanan, Dr.S.Subhashini, Director-Academics, Mr. L.Gnanaprakash, Director-Administrative Officer, Heads of Departments, Professors and Students Attended. Department of Chemistry making arrangements for the ceremony Dr.V.Thilan and Professor G.Rajkumar did well.



**Wash Audit Certification** 

The Quality Council of India (QCI) has developed a comprehensive standard "Workplace Assessment for Safety and Hygiene" (WASH)" to help the organizations across industries assess their preparedness to restart and run operations safely. TÜV SÜD South Asia has been approved by the Quality Council of India (QCI) as an assessment body for this scheme. Documents related to safety measures prevailing in the institution were inspected by experts through online platform on 20.11.2020. During the inspection the requisite documents and photographs were produced as part of fulfilling the formality of the inspection.

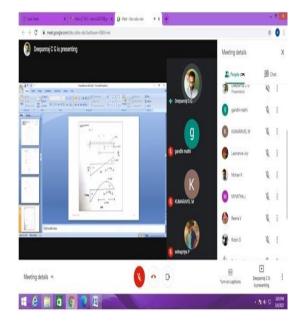
#### Guest Lecture on "Construction Techniques and Practices"

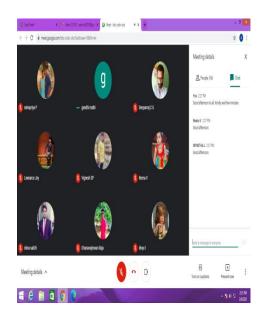




A guest lecture was conducted on 21.04.2021 on the topic "Construction Techniques and Practices" for second year Civil Engineering students. Mr.S.Manishankar, Mahendra Engineering College, Namakkal was the guest speaker. The highlights of the guest lecture are Construction practices, Substructure construction and equipment for construction. He explained about the Construction practices like site clearance, types of masonry, flooring, centering, and scaffolding etc, detailed process of making structures such as buildings, dams, and bridges. It will be more reliable to carry out the constructional activities. Substructure construction is used for all construction work below the surface. He also explained about Box and pipe jacking, diaphragm wall, well and caisson foundations which are constructed to provide underground passage, railways, canals, etc. And also he discussed about Construction equipment like heavy-duty vehicles, specially designed for executing construction tasks, earthwork operations or other large construction tasks. He discussed briefly about the practical applications and most importantly about the selection of materials which varies site to site.

#### Guest Lecture on "Inquiring the Propped and Fixed Beam"





A guest lecture was organized on 06.03.2021 for second year Civil Engineering students on the topic "Inquiring the propped and fixed beam". **Prof.C.G.Deepan Raj, Vivekanandha College of Technology for Women** was the guest speaker. He highlighted on equilibrium conditions, determinacy and indeterminacy, Comparison between determinacy and indeterminacy, types of supports. Engineering structures must remain in equilibrium both externally and internally when subjected to a system of forces. The applications and problems was dealt in his presentation.



Guest Lecture on "Influence Lines on Determinate Beams"

A guest lecture was conducted on 13.03.2021 on the topic "Influence Lines on Determinate Beams" for third year civil engineering students. **Prof.S.Kalaiselvi, Sona College of Technology, Salem** was the guest speaker. The highlights of the guest lecture are Structures such as bridges and overhead cranes must be designed to resist moving loads as well as their own weight. Since structures are designed for the critical loads that may occur in them, influence lines are used to obtain the position on a structure where a moving load will cause the largest stress. Influence lines is a graph whose ordinates show the variation of the magnitude of a certain response function of a structure as a unit load traverses across the structure. Response functions of a structure may include axial forces in members, support reactions, bending moments, shear forces, and deflection at specific points in the structure. It is very important to emphasize the need for students to fully grasp the aforestated definition, since most of the confusion and difficulty encountered when drawing influence lines stems from a lack of understanding of the difference between this topic and the bending moment and shearing force topics. A shearing force or bending moment

diagram shows the magnitude of the shearing force or bending moments at different points of the structure due to the static or stationary loads that are acting on the structure, while the influence lines for certain functions of a structure at a specified point of the structure show the magnitude of that function at the specified point when a unit moving load traverses across the structure. The influence lines of determinate structures can be obtained by the static equilibrium method or by the kinematic or Muller-Breslau method. Influence lines by the static equilibrium method are referred to as quantitative influence lines, as they require some calculations, while those by kinematic method are known as the qualitative influence lines, as the method enables the analyzer to obtain the correct shape of the influence lines without any quantitative efforts. The practical application of influence lines was also discussed.



Guest Lecture on "Scope of Civil Engineering"

A guest lecture was organized for the Civil Engineering students on 22.03.2021 on the topic "Scope of Civil Engineering". **Er.M.Mohanaram, proprietor, MR Structural Designs, Virudhunagar** was the invitee to deliver the lecture. He explained students about role of civil engineers in society and various fields in Civil Engineering. He gave information about the future needs of civil engineers with construction field. Finally he concluded with the Job opportunities in civil Engineering field. It was highly interactive session with students.



**Guest Lecture on "PQT & PRP"** 



A one-day guest lecture was conducted by the Department of Mathematics on 19.04.2021 for CSE & ECE Students through online meet on the topic "PQT & PRP". Mrs.M.Bhuvaneshwari, Assistant Professor and Mrs. J.Sundarambal, Assistant Professor from Mahendra Institute of Technology (Autonomous), Namakkal were the resource persons for the Lecture.

To develop the skill of subject knowledge, the guest lecturers highlighted on Probability and Random Variables, Two Dimensional Random Variables, Random Processes, Correlation and Spectral densities, Linear systems with random inputs, Queuing models and advanced Queuing models. They interacted with the students with real time example and reasoning. Above 100 students of our college participated. It helped the students to develop their skills and subject knowledge.

Dr.O.Saravanan, Dean - 1<sup>st</sup> Year, Dr.S.Subhashini, Director-Academics, Mr. L.Gnanaprakash, Director-Administration, Heads of Departments, Professors and Students from various other college attended the Guest Lecture. making arrangements for the ceremony Mr.M.Kumar, HOD introduced the guests, Mrs. R.Ezhilarasi, AP welcomed the gathering and Ms.R.Banu, proposed the vote of thanks.







The Department of Mathematics organized a One-day National Level Workshop was conducted on the topic "How To Make Technical Path With Math Techniques" on 16.04.2021 through online platform. **Dr.R.Sathya, HOD/Assistant Professor from Sona College of Arts and Science** was the resource person. Dr.A.Anbuchezian, the Principal, presided over the program

"To enrich the real life knowledge & Math Techniques and to develop the skill of application in Mathematics", the speaker highlighted on what are the various type in math and thinking capacity techniques. Logical reasoning, Fundamental of elements in optimization, Modeling Categories, Modeling Optimization, Technical path in modern technology and fuzzy logic were part of the speech. Interactions were also made with the students real time example like travel technical path and reasoning.

Around 100 students belonging to our college and also of various colleges participated in the seminar. It helped the students to develop their skills and gain indepth subject knowledge of technical path with mathematical techniques.

Dr O.Saravanan, First Year Dean Dr. S.Subhashini, Director-Academics, Mr. L. Gnanaprakash, Director-Administration, Heads of various Departments, Professors and Students attended the event. Mr.M.Kumar, Head, Mathematics made the arrangements and Mrs. R.Ezhilarasi, AP welcomed the gathering and Ms.R.Banu, AP proposed the vote of thanks and the program thus ended.



"Employability Skill Training in Technology & Soft Skills" by ICT Academy @ AEC

Annapoorana Engineering College in association with ICT Academy and CSS CORP organized and inaugurated an "Employability Skill Training in Technology & Soft Skills" on 1<sup>st</sup> march 2021. This training program is an initiative by ICT Academy through its Institutional tie-ups

for skilling youth. The objective is to skill the youth and prepare them to be employed and facilitate opportunities to be placed.

The training program was scheduled for a duration of 110 hours, out of which 40 hours were allotted for soft skill training, 60 hours for technical training, 10 hours for Group Discussion & Mock Sessions. The modules for soft skills training included areas such as business communication, personal communication, English grammar, vocabulary & accent. And with regard to technical skill training, the modules covered included hardware & networking, operating system and wireless technologies. Mr.S.Dhinakaran, Technical Trainer, ICT and Mrs. S. Karthika, Soft Skill Trainer, ICT were the resource person for the 110 hours training program.

Towards the end of the session, an online assessment test covering the full program was conducted and a joint certification from ICT Academy and Reliance was issued to the students scoring above their set target scores. The test consisted of Aptitude Test, Written Technical Test and Face to Face Interview . Out of 52 Number of participants from Annapoorana Engineering College, all the Students cleared the Online assessment test and the certificates were issued to the in this regard.

An off-campus placement Drive was organized by ICT for which corporates of different sectors to its fold for supply of skill resource were called for recruitments. Out of 52 students participated in the drive, 23 Students were placed in companies of top reputed and offer letters were issued to them.

Dr.T.Buvaneswari, ICT Academy Institute Coordinator & PG-HOD/coordinated throughout the training program and assisted the students in appearing for the placement drive.



One Day Seminar on "Cyber Security"

A One day Seminar on "Cyber Security" was organized by the Department of Computer Science and Engineering in association with IQAC of Annapoorana Engineering College on 06.03.2021 at Mrs.Annapoorani Seminar Hall. Dr.A.Anbuchezian, Principal,

Annapoorana Engineering College started the session with a warm welcome of the Chief Guest and the participants for the session.

Dr.T.Buvaneswari, PG-Head & Associate Professor / CSE gave an introductory note about the Chief Guest, Dr.A.Vinodhkumar, Senior Assistant Professor/ IT, Anand Institute of Higher Technology, Chennai. Around 76 participants attended the seminar.

Dr.A.Vinodhkumar during his session on the topic "Cyber Security" discussed the various aspects of Cyber Security, Cyber Forensics, Cyber Crimes, Cyber Attacks, Information Security and Cyber Threats. The Seminar received an excellent feedback from the participants and they had appreciated the method of delivery was quite informative to the student. Mr.R.Vijai, Associate Professor / CSE, proposed the vote of thanks and the program thus ended.



#### **National Defence Day**

On 3<sup>rd</sup> March,2021 National Defence Day was celebrated by conducting guest lecture on 'Students Role in National Safety'. TheProgramme was attended by all the faculty members and students of Annapoorana Engineering College. Major D.Prabhakar, IndianArmy, District Ex-servicemen's Welfare Officer, Salem was the guestspeaker. The speaker shared his thoughts on Students role in national defence in our country. The various divisions of Indian defence sector was explained to the students with purpose .Students were given an idea about scope and opportunities in defence sector. The speaker encouraged and motivated students to join in defence as it is the pillar of our National Security. As a soldier worked in Kargil sector our guest shared his experience about training and working there. The session was so interesting and students actively participated in this

event. In the end Students were given opportunity to clear their doubt about army enrollment through chat with the guest.

Dr.A.Anbuchezian, Principal, AEC in his patriotic speech shared how Defence system is important in our Country. He praised the dedication of soldiers towards the mother nation. He also highlighted the need students joining in the defence for growth of our nation.

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Webinar on "Human Values and Professional Ethics"

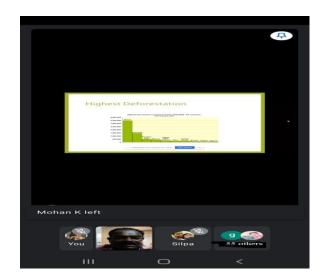
A One Day National Webinar on "Human Values and Professional Ethics" was organized by the Department of ECE on 16.03.2021 between 11.00 a.m - 12.00 p.m. Dr.A.Anbuchezian, Principal, Annapoorana Engineering College has presided over the webinar with the warm welcome to the resource person and the participants.

Mr.B.Ramesh, HoD/ECE welcomed the resource person and the participants. In his address he gave a brief introduction about Mr. T. Krishnakumar and mentioned that there were 102 participants registered from various parts of India.

The resource person explained in detailed about the professional ethics and human values. He also elucidated about the importance of ethics in engineering. He brought out the importance of ethics in politics and about the corruption which is due to the absence of ethics. He utilized the time effectively by giving lot of examples relating to the disasters and artificially made issues. He also narrated the employee care taken by TATA industries and their ethical behavior towards the upliftment of their staff .The issue of unethical selling of liquor by the government was discussed which is the main source for the downfall of lot of people living below poverty line. The way to live happily and how to behave was clarified by our guest speaker. There were 93 participants from the academic and Industries who

attended the webinar through Google Meet App. E-Certificates were issued to all the participants.Mr. M. Jestin Joseph AP/ECE proposed the vote of thanks to the resource person and the participants.

#### Webinar on "Present Situation of Environmental Condition and Water Supply"

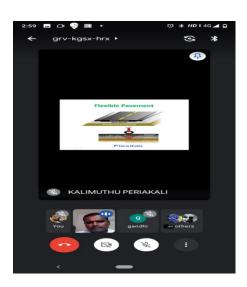


A one day webinar was conducted on 16.04.2021 on the title "Present Situation of Environmental Condition and Water Supply". Er.K.Murugesan, M.Tech, (PhD), Assistant Executive Engineer, TWAD Board, Maintenance Subdivision, Mayiladuthurai was the guest speaker. The webinar was very interesting and interactive .In his talk he discussed about Deforestation, Loss of Biodiversity, Global Warming and Pollution. Talking about deforestation he explained it started with the growth of agriculture, but was exacerbated in the nineteenth century when British commercial forestry operations destroyed Indian forests mainly in western and southern areas.Deforestation has affected the lives of wild animals and birds, soil erosion, climate change, women's livelihoods, water recharge and loss and loss of biodiversity.

Global extinction is being driven by human activities which overreach beyond the planetary boundaries as part of the Anthropogenic and has so far been proven to be irreversible. Even though permanent global species loss is a more dramatic and tragic phenomenon than regional changes in species composition, even minor changes from a healthy stable state can have dramatic influence on the food web and the food chain insofar as reductions in only one species can adversely affect the entire chain, leading to an overall reduction in biodiversity, possible alternative stable states of an ecosystem

notwithstanding. Ecological effects of biodiversity are usually counteracted by its loss. Reduced biodiversity in particular leads to reduced ecosystem services and eventually poses an immediate danger for food security, but also can have more lasting public health consequences for humans. The session was so thoughtful and a very important message to the students.

#### **GUEST LECTURE ON PAVEMENT ENGINEERING**



An online guest lecture was conducted for the students on the Pavement Engineering on 08.04.2021 by Mr.P.Kalimuthu, Head of the department, Paavai College of Engineering. The aim of the lecture was to give students a clear idea on pavement engineering. The guest explained about road pavement as a sequence or set of layers of materials placed on the natural ground. The natural ground is also known as the 'subgrade'. The pavement layers usually work to spread out the load of a person or vehicle. A vehicle that would get bogged down in muddy soil can cross the same soil easily when there's pavement in between. The challenge is to use the right materials for each layer so that the stress caused by the passing vehicle is so small by the time it gets to soil level that the soil hardly notices a vehicle is crossing. He also explained about rigid and flexible pavements. A rigid pavement has several layers with the best quality material located nearest the surface. A flexible pavement offers an elastic surface and is made of a thin surface of hot-mix asphalt poured over a base. The session was very useful for third year students.

#### Inauguration of "Employability Skill Training in Technology & Soft Skills"



Annapoorana Engineering College in association with ICT Academy and CSS CORP organized a an inauguration program for the Employability Skill Training in Technology & Soft Skills' on 1<sup>st</sup> march 2021. The training is proposed to be conducted for duration of 110 hours ranging approximately from 1<sup>st</sup> March to 10<sup>th</sup> April 2021. Mr.N.Balamurali, Manager,Academic Operations,ICT Academy, was the chief guest for the inauguration ceremony. Mr.S.Dhinakaran, Trainer,ICT Academy would be the resource person for the 10 days training program.

Dr.A.Anbuchezian, Principal, AEC, welcomed the gathering and expressed his view & importance the ICT Academy plays in transferring Technical knowledge to students' community. Mrs.Devipriya, AP/ECE introduced the Chief Guest and the trainer. Mr.N.Balamurali, during his guest speech gave an outline of the training program that would be carried out for next 10 days. The Chief Guest in his speech mentioned that only 800 students are given this skill training in the whole of Tamilnadu out of which 50 students are selected from Annapoorana Engineering College, which is a pride to our institution. Mr.N.Balamurali said that the students shall attend the program with fullest interest and if they fair well in the assessment conducted at the end of the training, they have more scope for placement opportunities. Dr.T.Buvaneswari, ICT Academy Institute Coordinator & PG-HOD/CSE proposed the vote of thanks.

MoU with ICT Academy



Considering the Entrepreneurship Cluster Development Program for the students aspiring to become entrepreneurs in the institution, **Annapoorana Engineering College has inked MOU with ICT Academy**. The main scope behind this collaboration is to nurture aspiring students/entrepreneurs across the State of Tamil Nadu and guide them towards beginning/running a successful business enterprise on their own. ICT Academy and Annapoorana Engineering College, Salem would collaborate to implement Entrepreneurship Cluster Development Program for 100 no of Students in the Institution.

In view of this collaboration, the roles played by ICT Academy would include supporting on student acquisition and Screening process for the Selection of Students for the program, providing the template for Printing of Marketing Collaterals, and giving Handouts to the beneficiaries, and Self learning access to the students. The roles shall also include conducting Assessments, offering certification to all successful students on fulfilling the criteria and conducting Awareness Sessions, Mentoring Sessions, & Training sessions as per the project plan.

Dr.A.Anbuchezian, Principal, Annapoorana Engineering College and Mr. V. Lakshmana Narayanan, Product Manager, ICT Academy signed the MOU and mutually agreed upon the terms and conditions of the collaboration.

#### Prefatory talk on "Let Curiosity Drive You"



The Placement and Training Cell of Annapoorana Engineering College organized a prefatory talk was conducted by placement and training cell on 22.03.2021 on the title "Let Curiosity Drive You". Mr. Ajith Selvaraju, Founder & CEO ,N'kisi Training Institute was the resource person. The programme was attended by the third year and final year students of Annapoorana Engineering College. Dr.A.Anbuchezian, Principal welcomed the gathering and the resource person. Mr. Ajith Selvaraju, had a very interactive session with students. He explained the students about importance of placement and mock interviews. In his talk, he discussed on tips to answer difficult questions, developing of interview strategies, improving up on communication skills, and to reduce stress before an actual job interview.

He also explained how to mock interviews helps in improving presentation skills, improvisation, active listening and effective communication. He concluded his talk with tips to overcome the stress while preparing for placement. The session was very informative and interesting for students. Students were given opportunity to clear their doubts on placement drives and interviews.

#### Webinar on "Truths and Myths about IT Industry"



A one day webinar was conducted on 13.04.2021 on the title "Truth's and Myth's about IT Industry". Mr.Naresh Kumar, Senior Software engineer and Cyber security Analyst, HCL Technologies, Chennai was the guest speaker. The webinar was exclusively for final year students. The guest explained students about various job opportunities for different departments in IT. The technical and software skill set needed for fresher, Expectation from companies were discussed with students. The various tips to shine for non-circuit branches to shine in IT firm was highlight of the talk. During his talk he also explained how due to the coronavirus, a lot of opportunities opened up in the IT industry, such as the growing need for the 5th generation (5G) technology. Even after all this, compared to many other industries, the IT industry is expected to have an enormous market boom in upcoming days. Our guest then discussed about different myths about IT industry, he also added the supposed myths are just the symptoms of being unqualified or ill-prepared for the interview and job opening. The session was very interesting and at the end student got an opportunity to clarify their doubts related to IT Industry.

#### **International Women's Day Celebration**



Annapoorana Engineering College celebrated "International Women's Day" on March 8<sup>th</sup> 2021. **Dr.M.Devi, Principal, Vivekanada college of Technology for Women, Tiruchengodu** was the guest speaker of the day and gave a special speech on the topic "Role of Women as an Administrator". Dr.T.Buvaneswari, PG Head-CSE / Coordinator-Women Empowerment Cell welcomed the gathering, Mrs.R.S.Gandhimathi, Professor-Civil Engineering introduced the Chief Guest. Dr.A.Anbuchezian, Principal, Annapoorana Engineering College in his felicitation address wished a very happy women's day to all the women students and faculty members of the college and said that women play a major role not only in the development of a family, but they are also a major supporting pillars in the development of a nation. Dr.A.Anbuchezian also mentioned that women has come a long way from those olden days, breaking the traditional myths and now they are reaching excellence in all developmental areas.

Dr.M.Devi, the Chief Guest in her motivating speech, quoted many saying on women by famous Tamil Poets Mahakavi Subramania Bharathiyar. She reiterated that women are developing at a faster pace all over the world and women should be known to others with our noteworthy deeds and actions. Dr.M.Devi also recalled that our women are at par with men and excelling in several areas such as space researches, sports, education, business, etc..... "Women are not just best administrators of their homes, they are the best administrators of the Nation too" the Chief guest added. Dr.S.Subhashini, Director-Academics proposed the vote of thanks and the program thus ended.

MoU signed between AEC and Integrity Inspection Service



An MoU was signed between Annapoorana Engineering College, Salem and Integrity Inspection Service, Salem for Certification Courses, Hands on Training, Workshop, Guest Lecture, Site Visit & Establishment of Testing Lab on 16.04.2021. The purpose of this MOU is to clearly identify the roles and responsibility of each organization as they related to education sector. Experts from the industry could play a key role in Certification Courses, hands on training, workshop, guest lecture, site visit & establishment of testing lab in the fields of Civil Engineering and Mechanical Engineering to corporate metamorphosis for the betterment of students. Both parties believe that close co-operation between the two would be of major benefit to the student community to enhance and validate their skills and knowledge, and benchmark their industry equivalent experience post certification.

**NAAC "A" GRADE ACCREDITATION** 



Annapoorana Engineering College added one more Gem to it's Crown by attaining NAAC "A" Grade Accreditation. The National Assessment and Accreditation Council (NAAC) conducts assessment and accreditation of Higher Educational Institutions (HEI) such as colleges, universities or other recognized institutions, to derive an understanding of the 'Quality Status' of the institution. Higher learning institutes in India are graded for each key

aspect/ parameter under four different categories such as 'A', 'B', 'C', and 'D'. The NAAC grade denotes the performance of institutes such as very good, good, satisfactory, and unsatisfactory. In such manner, the college attained "A" Grade Accreditation denoting excellent quality parameters and complying in all it's quality parameters set by NAAC. The college would still move ahead in it's quality pipeline to achieve the state of autonomy.



Webinar on "Recent Trends in Automobile Engineering"

A one-day webinar was conducted by the Department of Automobile Engineering on 26.04.2021 for Students by online meet on the topic "Recent trends in Automobile Engineering". Dr. S. Mahalingam, Associate professor, Sona College of Technology, Salem was the resource person. Dr. A. Anbuchezian, the principal, presided over the program.

Mr. N. Navaneetha Krishnan AP/Automobile welcomed the Chief Guest with a short introduction about him. Then the Chief Guest started the session with his presentation and the following are the things, the students learned about Electric vehicles, Autonomous Vehicles and Various sensors (Proximity Sensors) used in vehicle automation. Thus the topic itself shows that the webinar is more informative and entertaining. He nearly took the session up to one hour. Mr. B. Prabhu thanked the Chief Guest for his useful session and the E-Certificate is send to all the Participants. Nearly 40 people participated in the webinar and all are supplied with knowledge and certificate. The session was completed with a queries and solutions.

#### Workshop on "3D Printing - A Factory on your Desk"



A one-day Workshop was conducted by the Department of Automobile Engineering on 27.04.2021 for Students by online meet on the topic "3D Printing- A Factory on your Desk". Mr. S. Vigneshwaran, Assistant professor, Veltech Multitech Engineering College, Chennai was the resource person. Dr. A. Anbuchezian, the principal, presided over the program.

Mr. N. Navaneetha Krishnan AP/Automobile welcomed the Chief Guest with a short introduction about him. Then the Chief Guest started the session with his presentation and the following are the things, the students learned about 3D Printers, 3D Pen and Various Products that are produced by using 3D printer.

Thus the topic itself shows that the webinar is more informative and entertaining. He nearly took the session up to one and half an hour. Mr. B. Prabhu thanked the Chief Guest for his useful session and the E-Certificate is send to all the Participants. Nearly 12 people participated in the webinar and all are supplied with knowledge and certificate. Then session is completed with a queries and solutions.

**ISTE approved One Week STTP on Drone surveying** 



The department of civil engineering organized one week online Indian institute technical educations approved short term training programmes on 17.05.2021 to 21.05.2021. The main objective of this program conducted was, during this pandemic situations, to let the students to learn and develop the practical knowledge of drone surveying. The students participation from various institution and research scholars are well strong background of drone surveying and drone surveying applications. The experts from various institution and various industry to share them knowledge about the participants.





Engineers' Day is celebrated on September 15, every year in India commemorating the birthday of one of the greatest engineers in India and Bharat Ratna recipient, Sir Mokshagundam Visvesvarayyagaru, recognizing his contributions in harnessing water resources in India. He had successfully designed and constructed several river dams, bridges and revolutionized the irrigation system all over India. Engineer's day was celebrated on the occasion of 160th birthday of Sir M Visvesvaraya on September 15 th 2021 at Annapoorana Engineering College organized by Department of Civil Engineering. Programme Started around 10.45am through Google meet. Er.S.Selvakumar, Senior Structural Engineer, Jray Mcdermott, Chennai was the Chief Guest for the day. Welcome address was done by Prof. R.S. Gandhimathi, Head of the Department of Civil Engineering. Dr.A.Anbuchezian, Principal has felicitated the Engineers day importance & Damp; responsibility of Engineer's in this society. Introduction of Guest speaker was done by Mr.R.A.Shivasakthivadivelan, Assistant Professor, Department of Civil Engineering. Chief Guest Er.S.Selvakumar delivered the importance of celebrating Engineer's day and he also conveyed the message saying that each and every student can put their effort towards the industry revolution. Mrs.T.Divya, Assistant Professor, Department of Civil Engineering proposed the vote of thanks. On this occasion Department of Civil Engineering organized online Quiz competition to all department students. Many students participated enthusiastically & were awarded with attractive cash prizes.

#### Workshop on "Fundamentals of Artificial Intelligence and Machine Learning"



The Workshop on "Fundamentals of Artificial Intelligence and Machine Learning" was organized by the Department of Computer Science and Engineering in association with IQAC of Annapoorana Engineering College on 06.05.2021 at Google Meet. Dr.A.Anbuchezian, Principal started the session with a warm welcome of the Chief Guest and the participants for the session. Dr.T.Buvaneswari, HOD-PG & ASP/CSE gave an introductory note about Dr.B.Kalaiselvi, Associate Professor, Department of CSE, Mahendra Engineering College for Women, Thiruchengode. There were about 100 participants in the session, who attended the workshop and the program was started. Dr.B.Kalaiselvi, started the session on the topic "Fundamentals of Artificial Intelligence and Machine Learning". The topics which were discussed in the workshop are Artificial Intelligence, Computer Vision, Biometrics, Robotics/Sensors and Machine Learning.

Al and Machine Learning have taken over the traditional computing methods, changing how many industries perform and conduct their day-to-day operations were explained briefly. Data from research and manufacturing to modernizing finance and healthcare streams, leading Al has changed everything in a relatively short amount of time were shared with participants.

Al and related technologies have had a positive impact on the way the IT sector works. To put it simply, artificial intelligence is a branch of computer science that looks to turning computers into intelligent machines that would, otherwise, not be possible without direct human intervention. By making use of computer-based training and advanced algorithms, Al and machine learning can be used to create systems capable of mimicking human behaviors, provide solutions to difficult and complicated problems, and further develop simulations, aiming to become human-level AlThe Workshop received an excellent feedback from the participants and they had appreciated the method of delivery was quite

informative to the student. Mr.R.Vijai , Associate Professor/CSE, proposed the vote of thanks. The participants received the E-Certificates for their participation.

#### Workshop on "Mobile App Development"



The Workshop on "Mobile App Development" was organized by the Department of Computer Science and Engineering in association with IQAC of Annapoorana Engineering College on 09.04.2021 at Google Meet. Dr.A.Anbuchezian, Principal started the session with a warm welcome of the Chief Guest and the participants for the session. Mr.K.Thangadurai, ASP/CSE gave an introductory note about, the resource person **Dr. N.V.S Sree Rathna Lakshmi, Professor, Agni College of Technology, Chennai.** There were about 100 participants in the session, who attended the workshop and the program was started.

Dr.N.V.S Sree Rathna Lakshmi, started the session on the topic "Mobile App Development". The topics which were discussed in the workshop are Strategy, Analysis and Planning, UI /UX Design, App Development, Testing and Development and Support.

The first phase of the mobile app development process is defining the strategy for evolving your idea into a successful app. You may include a more significant part of this in your overall enterprise mobility strategy. As one app's objectives may differ from another, there is still an app-specific impact to the mobility strategy to address during the development process.

Part of the planning phase includes identifying the skills needed for your app development initiative. For example, iOS and Android mobile platforms use different development technology stacks. If your goals are to build a mobile app for both iOS and Android mobile platforms then, your mobile development team should include iOS developers and Android developers.

The Workshop received an excellent feedback from the participants and they had appreciated the method of delivery was quite informative to the student. Mr.R.Uma Mageswari, Assistant Professor/CSE, proposed the vote of thanks. The participants received the E-Certificates for their participation.

#### One Day Seminar on "Cyber Security"



A One day Seminar on "Cyber Security" was organized by the Department of Computer Science and Engineering in association with IQAC of Annapoorana Engineering College on 06.03.2021 at Mrs.Annapoorani Seminar Hall. Dr.A.Anbuchezian, Principal, Annapoorana Engineering College started the session with a warm welcome of the Chief Guest and the participants for the session.

Dr.T.Buvaneswari, PG-Head & Associate Professor / CSE gave an introductory note about the Chief Guest, **Dr.A.Vinodhkumar**, **Senior Assistant Professor**/ **IT**, **Anand Institute of Higher Technology**, **Chennai**. Around 76 participants attended the seminar.

Dr.A.Vinodhkumar during his session on the topic "Cyber Security" discussed the various aspects of Cyber Security, Cyber Forensics, Cyber Crimes, Cyber Attacks, Information Security and Cyber Threats. The Seminar received an excellent feedback from the participants and they had appreciated the method of delivery was quite informative to the student. Mr.R.Vijai, Associate Professor / CSE, proposed the vote of thanks and the program thus ended.

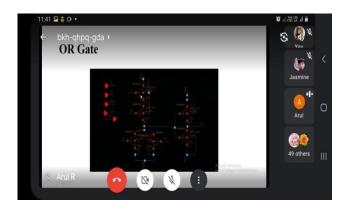
#### National level workshop on "Recent Trends in Big Data"



A One Day National level workshop on "Recent Trends in Big Data" was organized by the Department of ECE on 23.04.2021 between 12.00 p.m. - 1.00 p.m. Dr. A.Anbuchezian, Principal, Annapoorana Engineering College has presided over the webinar with the warm welcome to the resource person and the participants.

Mr. B. Ramesh, HoD/ECE welcomed the resource person and the participants. In his address he gave a brief introduction about **Dr. V. Chandrasekar**, **Associate Professor Malla Reddy College of Engineering and Technology**, **Hyderabad** and mentioned that there were 120 participants registered from various parts of India. The resource person explained in detailed about the recent trends in BIG DATA. He also elucidated about the importance of BIG DATA for the future generations and also in the field of engineering. He initially started with the evolution of big data and also enumerated the types of memory, particularly virtual memory. Various tools available in big data was discussed. The three types of data's available was explained in detail. The importance of digital data and data mining was elucidated. The future of data science and the value of data scientist. in engineering was stressed. The challenges faced in the application of the big data, the advantages and disadvantages of big data was also clarified by the guest speaker. There were 96 participants from the academic and Industries who attended the webinar through Google Meet App. E-Certificates were issued to all the participants.Mr. M. Jestin Joseph AP/ECE proposed the vote of thanks to the resource person and the participants.

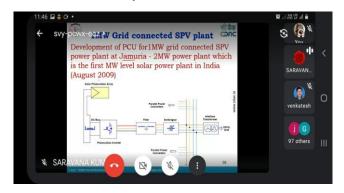
#### Workshop on "Recent Trends in VLSI Design"



A One day Workshop on "Recent Trends in VLSI Design" organized by the Department of Electronics and Communication Engineering on 24.04.2021 between 11.00 a.m to 12.00 p.m. Dr.A.Anbuchezian, Principal, Annapoorana Engineering College has presided over the Workshop with the warm welcome to the Resource Person and Participants.

Mr.B.Ramesh, HOD/ECE, Annapoorana Engineering College has welcomed Mr.R.Arul, Project Associate, NIT, Delhi the guest. Mrs.M.Abinaya, Assistant Professor, introduced the chief guest about his carrier profile. Resource Person explained the Front end and Back end design of VLSI Technology. And also explained about fabrication steps like well formation, Transistor formations of shot channel devices. The resource person mentioned the term Neuromorphic sensing & Computing in his speech. He was briefly discussed about signal integrity issues like IR drop, Antenna effect, Electro migration and Cross talk. In his interactive session he had given clarification to the participants for their various doubts And explained the job opportunities in VLSI related industries like product based industries, Service based industries and Tools based industries. Mrs.S.Devipriya, Assistant Professor/ECE proposed the vote of thanks to the resource person and participants.

# National level workshop on "Grid Connected Solar Power Plant Design and Implementation"

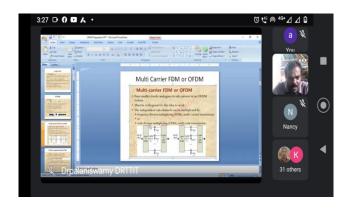


A One Day National level workshop on "Grid Connected Solar Power Plant Designand implementation was organized by the Department of ECE on 29.04.2021 between 11.00 p.m - 12.00 p.m. Dr. A.Anbuchezian, Principal, Annapoorana Engineering College has presided over the webinar with the warm welcome to the resource person and the participants.

Mr. B. Ramesh, HoD/ECE welcomed, A.Saravanakumar ,Scientist & Joint Director, Power Electronics Group, CDAC, Thiruvananthapuram the resource person and the participants. In his address he gave a brief introduction about MrA.Saravanakumar and mentioned that there were 150 participants registered from various parts of India.

The resource person explained in detailed about Grid Connected Solar Power Plant. He also elucidated about the importance of Solar Power Plant for the future generations and also in the field of engineering. He initially started with the evolution of Semi conducting Devices. Solar energy is one of the most economical and exploitable renewable sources of energy that can be harnessed for generation of power. There are several advantages of using solar energy like low establishment period, no raw material expenses, non-polluting and renewable form of energy, etc. India has very good conditions for the development of photovoltaic solar power systems due mainly the geographical location and it receives solar radiation almost throughout the year,. The challenges faced in the application of Grid Connected Solar Power Plant Design and Implementation was also clarified by the guest speaker. There were 150 participants from the academic and Industries who attended the webinar through Google Meet App. E-Certificates were issued to all the participants. Mr. J.Jothilakshmi ASP/ECE proposed the vote of thanks to the resource person and the participants.

## A One Day Workshop on "Implementation of OFDM in LTE Wireless Communication System"



Α One day Workshop on "Implementation of OFDM in LTE Wireless Communication System" organized by the Department of Electronics and Communication Engineering on 30.04.2021 between 02.30 p.m to 03.30 p.m. Dr.A.Anbuchezian, Principal, Annapoorana Engineering College has presided over the Workshop with the warm welcome to the Resource Person , Dr.K.MPALANISWAMY, Professor, Department of ECE, Dr T Thimmaiah Institute of Technolgy, Visveswaraya Technological University, Karnataka and Participants. Mr.B.Ramesh, HOD/ECE, Annapoorana Engineering College has welcomed and introduced the chief guest about his carrier profile. Resource Person explained basics of wireless communication. And also explained about evolution of wireless Communication 4G/LTE. The resource person mentioned the term OFDM concepts, implementation of OFDMA /SC-FDMA in wireless Communication and its transmitters, receivers. In his interactive session he had given clarification to the participants for their various doubts. Mr.R.Arul Arumugam, Assistant Professor/ECE proposed the vote of thanks to the resource person and participants.

#### National level Workshop on "Noise Characterization in Communication"



A One Day National level Workshop on "Noise Characterization in Communication" was organized by the Department of ECE on 11.05.2021 between 11.00 a.m. - 12.00 p.m.

Dr. A.Anbuchezian, Principal, Annapoorana Engineering College has presided over the workshop with the warm welcome to the resource person and the participants. Mr.B.Ramesh, HoD/ECE welcomed **Dr. M. N. Vimal kumar, Associate Professor, RMD Engineering College, Chennai** the resource person and the participants In his address he gave a brief introduction about Dr. M. N. Vimal kumar and mentioned that there were 150 participants registered from various parts of India.

The resource person explained in detailed about the noise characterization in communication. He also explained that the Noise is random, undesirable electrical energy that enters the communications system via the communicating medium and interferes with the transmitted message. However, some noise is also produced in the receiver. With reference to an electrical system, noise may be defined as any unwanted form of energy which tends to interfere with proper reception and reproduction of wanted signal. He also explained the categories of noise in communication that is, External noises, i.e. noise whose sources are external. External noise may be classified into the following three types: Atmospheric noises, Extra-terrestrial noises, Man-made noises or industrial noises. There were 93 participants from the academic and Industries who attended the workshop through Google Meet App. E-Certificates were issued to all the participants. Mrs.E.Sharmila, AP/ECE proposed the vote of thanks to the resource person and the participants.

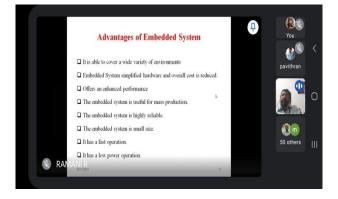
One Day National level workshop on "The Big Shift: Getting prepared to start your career"



A One Day National level workshop on "The Big Shift: Getting Prepared to Start Your Career" was organized by the Department of ECE on 15.05.2021 between 11.00 a.m. - 1.00

p.m. Dr. A.Anbuchezian, Principal, Annapoorana Engineering College has presided over the webinar with the warm welcome to the resource person and the participants. Mr. B. Ramesh, HoD/ECE welcomed the resource person, Mr. Vinoth Subramanian , Tata Consultancy Services, South Africa, and the participants. In his address he gave a brief introduction about Mr. Vinoth Subramanian and mentioned that there were 460 participants registered from various parts of India. He spoke with lot of examples from his own life and from society and suggested that the students should narrow down the list of careers, mostly to two or three. He elucidated the importance of perseverance in a particular field which will be useful to get a successful career. He further insisted on targeting companies with open mindedness and advocated the students should have innovative approaches and they should know their strength and weakness. They should talk to their college's career center about placement, internships, and opportunities. He also gave the importance of English communication and ideas to improve it. He correspondingly asserted the importance of building a good resume to impress the recruiters. There were 200 participants from the academic and Industries who attended the webinar through Google Meet App. E-Certificates were issued to all the participants. Mrs.E.Sharmila., AP/ECE proposed the vote of thanks to the resource person and the participants.

# A One day Workshop on "Introduction of Embedded Systems and Proteous software"



A One day Workshop on "Introduction of Embedded Systems and Proteous Software" organized by the Department of Electronics and Communication Engineering on 21.05.2021 between 10.30 a.m to 11.30 a.m. Dr.A.Anbuchezian, Principal, Annapoorana Engineering College has presided over the Workshop with the warm welcome to the Resource Person and Participants.

Mr.B.Ramesh, HOD/ECE, Annapoorana Engineering College has welcomed the resource person **Dr. R. Ramani, Assistant Professor/ECE, Vinayaka Missions Kirupananda Variyar Engineering College, Salem.** Mrs.M.Abinaya, Assistant Professor, introduced the chief guest about his carrier profile. Resource Person briefly explained the Introduction of Embedded Systems with its applications. And also he mentioned the advantages of Embedded Systems.

After that Dr. R. Ramani gave the detailed explanations about the Proteous VSM Software and its tools. He has shown the steps involved in the simulation of circuits through Proteous software. He also simulated Half Wave Rectifier, Full Wave Rectifier, LCD display using 8051 microcontroller, Stepper motor controller and Analog to Digital Converter through this session. In his interactive session he had given clarification to the participants for their various doubts. Mrs.S.Devipriya, Assistant Professor/ECE proposed the vote of thanks to the resource person and participants.

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Webinar on "Embedded System and its Applications"

A One day Webinar on "Embedded System and its Applications" organized by the Department of Electrical and Electronics Engineering on 03.05.2021 between 02.30p.m to 04.00p.m. Dr.A.Anbuchezian, Principal, Annapoorana Engineering College has presided over the Webinar with the warm welcome to the Resource Person, Dr.M.Senthilkumar, Associate Professor, Sri Krishna College of Engineering, Coimbatore and Participants.

Dr.R.Venkatesh, HOD/EEE, Annapoorana Engineering College has welcomed the guest. Mrs.M.Prabha, Assistant Professor, introduced the chief guest about his carrier profile. Resource Person explained the Embedded system and its Applications. And also explained about components of embedded system, Embedded system hardware, Embedded system characteristics, classification of Embedded system, Real time Embedded system.

The resource person mentioned the terms medical system, office equipment, tools, building system & Application of embedded system & Examples of Embedded system in his speech. He was briefly discussed about embedded system in digital camera, Industrial robots, Air conditioner in embedded system. In his interactive session he had given clarification to the participants for their various doubts.

And explained the job opportunities in Embedded system related industries like product based industries, Service based industries and Tools based industries. Mrs.P.Ganga, Assistant Professor/EEE proposed the vote of thanks to the resource person and participants.

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Workshop on "Modern Power Transmission and Distribution System"

A One day Workshop on "Modern Power Transmission and Distribution System" organized by the Department of Electrical and Electronics Engineering on 07.05.2021 between 10.00a.m to 12.00p.m. Dr.A.Anbuchezian, Principal, Annapoorana Engineering College has presided over the Workshop with the warm welcomed, Er.A.Sivaraman B.E., M.Tech, MIE., Assistant Executive Engineer / Electrical TNEB / TANGEDCO / Namakkal Electricity Distribution Circle, Namakkal was the Resource Person .

Dr.R.Venkatesh, HOD/EEE, Annapoorana Engineering College has welcomed the guest. Mrs.T.Muthamil, Assistant Professor, introduced the chief guest about his carrier profile. Resource Person explained the Modern Power Transmission and Distribution System. And also explained about Power Scenario In India and In Tamilnadu, Transmission System, Distribution System Metering, Advanced Metering, Tod Meters, Meter Reading Instruments – CMRI, Tele Metering.

The resource person mentioned the Pre-Paid Metering, Spot Billing, Sector – Wise Power Consumption with the Examples of Hydro Power Plant, Roof Top Solar Power Plants, Solar Water Pumps, T&D Losses & AT & C Losses in India, Transmission & Distribution Voltage Level in his speech.

He was briefly discussed about State Load Despatch Centre, various types of Energy Meters, Advanced Metering System, Problem in the field, now under Implementation in the field. In his interactive session he had given clarification to the participants for their various doubts and explained the job opportunities in Thermal Power Station, TNEB / TANGEDCO. Mr.L.Gnanaprakash, Assistant Professor/EEE proposed the vote of thanks to the resource person and participants.

#### One day Seminar on "Cyber Security"

A One Day Seminar on "Cyber Security" organized by the Department of EEE in association on 23.03.2021, 10.30 a.m. at Dr.Visvesvaraya Hall. Dr.A.Anbuchezian, Principal, presided over the webinar with the warm welcomed Mr.Gokul Krish, Certified Ethical Hacker, Corporate Trainer/ Freelancers, Founder - Think Info Academy the resource person and the participants.

Dr.R.Venkatesh, Professor & HOD/EEE welcomed Mr.Gokul Krish, Certified Ethical Hacker, Corporate Trainer/ Freelancers, Founder-THINK INFO Academy and the participants. Resource person explained that demands of cyber security Experts in various sectors, such as in government and private organizations. In his interactive session he had given clarifications to the participations for their various doubts and explained the job opportunities in core industries as well as government. Mr.S.Senthilkumar, Assistant Professor /EEE proposed the vote of thanks to the resource person and the participants.

#### Webinar on "Industrial Heat Ventilation & Air Conditioning System"





The Department of Mechanical Engineering Organize one-day Webinar on "Industrial Heat Ventilation & Air Conditioning System" on 27.04.2021 for Mechanical & Automobile Students are participated through online meet. Behalf of Chief guest Mr.S.Jayaraj, Asst.Engg. Manage, L&T (ECC Division) Chennai were the resource persons sharing the knowledge for Industrial oriented real time application of the Refrigeration and Air Conditioning for various applications like commercial and residential building, Airports, Hospitals, power Plants, and Pharma industries, etc.... and how to develop the basic skills of subject knowledge, Technology development of air conditioners has been undertaken primarily for establishment of a comfortable living environment. The guest lecturers highlighted on technology development related to improvement of energy-saving performance has been implemented to accomplish the current target standards, development of each elemental technology has almost reached its limit and thus innovative technology development is hardly expected. And also More than 75 students and staff members for various Institutions to be participated. It helped the students to develop their skills and subject knowledge.

Dr.S.Senthilkumar HOD/Mech, Dr.S.Subhashini, Director - Academics, Mr.L.Gnanaprakash, Director - Administration, Heads of Departments, Professors and Students from various other colleges attended the Guest Lecture. Making arrangements for the ceremony Mr. M.Govindaraj, AP/Mech, introduced the guests, Mr.P.Sakthivel, AP/Mech welcomed the gathering and Mr.J.Boopathi, AP/Mech. proposed the vote of thanks.







Department of Mechanical Engineering Organizes one-day webinar on "Recent Trends in Finite Element Analysis" on 22.04.2021 for Mechanical & Automobile Students are participated through online meet. Mr.A.Aravindh M.E, Asst. Professor, Srinivasa Institute of technology, Andra Pradesh was the Chief guest.

The resource persons shared the knowledge about the widely used method for numerically solving differential equations arising in Engineering and mathematical modeling. Typical problem areas of interest include the traditional fields of structural analysis, heat transfer, fluid flow, mass transport, and electromagnetic potential. The FEM is a general numerical method for solving partial differential equations in two or three space variables (i.e., some boundary value problems). To solve a problem, the FEM subdivides a large system into smaller, simpler parts that are called finite elements. This is achieved by a particular space discretization in the space dimensions, which is implemented by the construction of a mesh of the object: the numerical domain for the solution, which has a finite number of points. The finite element method formulation of a boundary value problem finally results in a system of algebraic equations. Industrial oriented real time application of the A variety of specializations under the umbrella of the mechanical engineering discipline (such as aeronautical, biomechanical, and automotive industries) commonly use integrated FEM in the design and development of their products.

Several modern FEM packages include specific components such as thermal, electromagnetic, fluid, and structural working environments. In a structural simulation, FEM helps tremendously in producing stiffness and strength visualizations and also in minimizing weight, materials, and costs. And also More than 65 students and staff members from various Institutions to be participated. It helped the students to develop their skills and subject knowledge.

Dr.S.Senthilkumar HOD/Mech, Dr.S.Subhashini, Director-Academics, Mr. L.Gnanaprakash, Director-Administration, Heads of Departments, Professors and Students from various other colleges attended the Guest Lecture. Making arrangements for the ceremony Mr.J.Boopathi /Mech, introduced the guests, Mr.M.Ranjithkumar, AP/Mech welcomed the gathering and, Mr. M.Govindaraj, AP/Mech proposed the vote of thanks.

Workshop on "Metallurgy for Non-Metallurgist"



The Department of Mechanical Engineering Organizes one-day Workshop on "Metallurgy for Non-Metallurgist" on 06.05.2021 for Mechanical & Automobile Students are participated through online meet. Mr.S.Arun Prasath B.E, MBA, Senior Engineer R&D, Mann and Hummel Filter Private Limited, Bengalore was the resource person. The resource persons shared the knowledge for gaining an understanding of what metals are, how they behave, and why they behave differently than ceramics, glass, and plastics. Also learn how metals can be made stronger or more corrosion resistant, how they can be shaped by casting, forging, forming, machining, or welding, and how these processes can alter properties.

This workshop aims to provide a sound understanding of the scientific principles of metallurgy and how to apply them to specify and process metals in an industrial context. It will introduce you to the fundamental concepts of metallurgy without going into great technical depth.

Starting with the fundamental concepts of crystallography and phase diagrams for ferrous and non-ferrous alloys, the course progresses to consider heat treatment & metal processing technologies and their influence on material properties.

The workshop concludes with discussions and case studies illustrating how alloys are selected, specified and processed in a range of industrial sectors. Some prior understanding of metallurgical principles is assumed, possibly from our one day "Fundamentals of Metallurgy" course. And also More than 60 students and staff members from various Institutions to be participated. It helped the students to develop their skills and subject knowledge.

Dr.S.Senthilkumar HOD/Mech, Dr.S.Subhashini, Director - Academics, Mr. L.Gnanaprakash, Director - Administration, Heads of Departments, Professors and Students from various other colleges attended the Guest Lecture. Making arrangements for the ceremony Mr.P.Sakthivel, AP /Mech, introduced the guests, Mr.S.Kannan, AP/Mech welcomed the gathering and, Mr. M.Govindaraj, AP/Mech proposed the vote of thanks.

## **FACULTY AWARDS (JANUARY – JUNE 2021)**

SI. No	Recipient of the award	Designation	Awarding Agency	Title of the Award
1.	Dr.A.Anbuchezian	Principal		Principal of the year
	Mrs.R.S.Gandhimathi	ASP - Civil	Institute of scholars (INSC)	Research Excellence
2.	Dr.T.Buvaneswari	PG Head - CSE		award 2021
	Dr.S.Subhashini	ASP - Mgmt		
3.	Mrs.M.Abinaya	AP - ECE	IIT Kharagpur	NPTEL Elite+ Silver medal in Evolution of Air Interface towards 5G
4.	Ms.S.Santhi	Prof & Head - English	Ediko Unite of Scholars and Cosmos International Research University	Most Dynamic Teacher
5.	Mr.M.Kumar	AP - Maths		Educational Reformer of the Year

## **FACULTY ACTIVITIES (JANUARY 2021 - JUNE 2021)**

(Conference, FDP, Workshop, Seminar, Hands-on-Training)

SI. No	Date	Name	Event	Title	College/ Institution				
	Department of Automobile Engineering								
1.	26.04.2021	Mr.N.Navaneetha Krishnan Mr.S.Prakash Mr.G.Sekar Mr.K. Ramasamy	Seminar	Recent Trends in Automobile Engineering	Annapoorana Engineering College				
2.	27.04.2021	Mr.N.Navaneetha Krishnan Mr.S.Jegadeeshan	Workshop	3-D Printing-A Factory on Your Desk	Annapoorana Engineering College				
3.	07.05.2021	Mr.S.Balachandran Mr.N.Navaneetha Krishnan Mr.S.Balachandran	Hands on Training	Programming Essentials in Python	ICT Academy				
		Departm	ent of Civil E	ngineering					
1.	16.02.2021 - 20.02.2021	Mrs.N.Silpa	Live FDP	Setting goals and Managing Time	ICT Academy				
2.	16.03.2021 - 20.03.2021	Mrs.P.Selvapriya							

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	23.03.2021	Mrs.R.S.Gandhimathi			
3.	-	Wilsinis.Gariaminatin		Stress Management	
	27.03.2021				
				A Beeline for	
4.	24.04.2021	Mr.M.Chandran		Circular Economy	K.S.R College of
1.	-			Through Sustainable	Engineering
	01.05.2021			Waste Management	
		Dr.A.Anbuchezian			
	12.05.2021	Dr.A.Murugesan	Online	Innovative	Eswari
5.	-	Mr.R.A.Shivasakthivadiv	STTP	technology in	Engineering
J.	19.05.2021	elan		civil engineering	College
		Mrs.P.Selvapriya		Civil eligilicering	Conege
	31.05.2021	Mrs.N.Silpa		Thrust areas of	Dr.N.G.P
6.	-	Mrs.T.Divya		research in civil	Institute of
	04.06.2021	•		engineering	Technology
	ı	Department of Co		nce and Engineering	
			Train-the-	Android	
1.	06.09.2021		Trainer	Development with	
			Program	Kotlin	
	14.06.2021				
2.	-	Mr.T.P.Udhayasankar	FDP	Fundamentals of AI	
	20.06.2021				ICT Academy
	16.02.2021			Fundamentals of	101 / load city
3.	-		FDP	Machine Learning	
	20.02.2021			_	
			Train-the-	Android	
4.	06 .03 2021		Trainer	Development with	
			Program	Kotlin	
				Transformation	
				through NAAC	
	21.06.2021		Online	Accreditation	Institute for
5.	-		workshop	Process, A National	Academic Excellence,
	22 .06.2021		level workshop for	(IAE)Hyderabad	
				higher Educational	
	44.00.000			Institutions	
	14.06.2021			Francisco CA1	
6.	40.00.0001	D. T.D.		Fundamentals of AI	
	18.06.2021			Internal Catherine	ICT Academy
_	26.04.2021			Introduction to	_
7.	20.04.2024			Python	
	30.04.2021 19.04.2021			Programming Database	
8.	19.04.2021		FDP		Oraclo Acadomy
ο.	24.04.2021		FUP	Programming with PLSQL	Oracle Academy
	01.03.2021			FDP on Android	
9.	01.03.2021			Development with	
٦.	06.03.2021			Kotlin	
	16.02.2021			KUUIII	ICT Academy
10.	10.02.2021			Fundamentals of	
10.	20.02.2021			Machine Learning	
	20.02.2021		l		<u> </u>

	Department of Electronics and communication Engineering							
1.	09.01.2021	Mr.M. Jestin Joseph Mrs.E.Sharmila Mrs.S.Devipriya	Workshop	Design Validation Through Various Models	Tagore Institute Of Engineering And Technology			
2.	01.03.2021 - 06.03. 2021	Mrs.E.Sharmila	Training	Android Development with Kotlin	ICT Academy			
3.	11.03.2021	Mrs.S.Devipriya	Course	Programming Essentials In Python				
4.	12.03.2021	Mrs.M.Abinaya Mr.S.Karthick	Skill Training	PCAP: Programming Essentials in Python	Cisco Networking Academy			
5.	24.04.2021	Mrs.E.Sharmila	Workshop	Recent Trends In VLSI Design	Sathyabama Institute of Engineering and Technology			
6.	14.03.2021	Mr.M. Jestin Joseph	Workshop	Adapting Research Mindset 2.0	Research Brains			
7.	17 .05.2021 - 21 .05.2021	Mrs.E.Sharmila	FDP	ICT Tools For Faculty	ICT Academy			
8.	24.05.2021 - 28.05.2021	Mrs.S.Devipriya		Recent Trends in Wireless Communication and 5G Technology	Narasu's Sarathy Institute of Technology			
9.	01.05.2021 - 04.06.2021	Mrs.E.Sharmila		Recent Trends and Research Perspective on Energy and Power System	The Institute of Engineering and Technology			
10.	07.06.2021 - 12.06.2021	Mrs.S.Devipriya	FDP	Advances in Wireless Communication Technologies	Malla Reddy Engineering College			
11.	07.06. 2021 - 11.06. 2021	Mrs.E.Sharmila		Creative Thinking	ICT Academy			
12.	31.05.2021 - 04.06.2021	Mr.S.Karthick		Recent Trends And Research Perspective On Energy And Power System	PSN College of Engineering and Technology			
13.	21.06.2021 & 22.06.2021	Mr.M.Jestin Joseph	Workshop	Transformation through NAAC Accreditation Process	Institute For Academic Excellence, Hyderabad.			
		Department of Elec	trical and Ele	ctronics Engineering				
1.	18.01.20201 - 23.01.2021	Mrs.M.Prabha	FDP	Digital Teaching Techniques	ICT Academy			

2.	25.01.2021 - 30.01.2021	Mrs.P.Ganga		Circuit Design Using Autocad Electrical	
3.	12.03.2021	Dr.R.Venkatesh Mrs.T.Muthamil Mrs.M.Prabha Mr.S.Senthilkumar Mrs.Ganga	National Level Workshop	Modelling of Solar & Wind Energy Systems With Design Techniques Of Converter And Inverter Technologies	Academy of Higher Education
4.	19.03.2021 - 20.03.2021	Mrs.T.Muthamil Mrs.M.Prabha Mrs.Ganga	FDP	Simulating Power Electronics Applications Using Python & Matlab	M.Kumarasamy College of Engineering
5.	10.04.2021	Mrs.M.Prabha Mr.L.Gnanaprakash	Conference	Smart Automation In Computer Electrical and Electronics and Communication Engineering	SRM Valliammai Engineering College
6.	27.05.2021 - 29.05.2021	Mrs.T.Muthamil Mrs.Ganga Mrs.M.Prabha	FDP	Emerging Power Conversion Techniques For Renewaable Enerrgy And Electric Vehicle Applications	Er.Perumal Manimekalai College Of Engineering
7.	21.05.2021	Mr.L.Gnanaprakash	Online Live FDP	ICT Tools for Faculty	ICT Academy
8.	22.06.2021	Dr.R.Venkatesh	Workshop	Accreditation Process - A National Level Workshop for Higher Educational Institutions	Institute for Academic Excellence
9.	14.06.2021 - 26.06.2021	Mrs.M.Prabha Mr.L.Gnanaprakash	FDP	Virtual Faculty Development Program On Entrepreneurship	•
10.	19.06.2021	Mrs.T.Muthamil Mrs.Ganga Mrs.M.Prabha	Workshop	Patent Commercialization Methods and Strategy-	Francis Xavier Engineering College
11.	14.06.2021 - 19.06.2021	Mrs.T.Muthamil Mrs.M.Prabha	FDP	Research Innovations And Emerging Advances In Electrica Engineering	Engineering
		Department of	of Mechanical		
1.	18.02.2021 - 23.02.2021	Mr.S.Kannan	Certificat Course	Teaching Techniques	
2.	22.02.2021 - 26.02.2021	Mr.M.Ranjithkumar Mr.S.Kannan	FDP	Productive tools in AutoCAD	ICT Academy

3.	22.02.2021 - 03.03.2021	Mr.M.P.Mohanraj	Certificate Course	Programming Essentials in Python	
4.	28.05.2021 - 31.05.2021	Mr.M.Ranjithkumar Mr.P.Sakthivel Mr.S.Kannan		Emerging Trends in Mechanical Engineering	Er.Perumal Manimekalai College of Engineering,
5.	31.05.2021 - 04.06.2021	Mr.M.Ranjithkumar	FDP	Recent Trends and Research Perspective on Energy and Power System	PSN College of Engineering and Technology
6.	21.05.2021	Mr.M.Ranjithkumar	Seminar	New Product Design and Development	Karpaga Vinayaga College of Engineering and Technology
7.	15.03.2021 - 20.03.2021	Mr.M.Ranjithkumar Mr.S.Kannan	Short Time Course	Fundamentals and advances in Powder Matallurgy	QIP Center Indian Institute of Technology Indore
8.	03.05.2021 - 07.05.2021	Mr.M.Ranjithkumar Mr.P.Sakthivel	Workshop	Emerging Trends in Thermal Engineering	Sree Chaitanya College of Engineering
9.	02.06.2021 - 04.06.2021	Mr.M.Ranjithkumar		Research Methodology	Annai Vailankanni College of Engineering
10.	31.05.2021 - 04.06.2021	Mr.M.Govindaraj Mr.P.Sakthivel	FDP	Green Technology for Enhancing Livelihoods	Centurion University
11.	15.07.2021 - 17.07.2021	Mr.M.Govindaraj Mr.J.Boopathi	Workshop	Additive Manufacturing	Jaypee University of Engineering and Technology, Guna
12.	03.09.2021		National Workshop	Excellence in Recruitment	NSE, Mumbai
13.	20.09.2021 - 24.09.2021	Mr.M.Govindaraj	Atal FDP	Applications of 3D Printing Technology in Engg. Education	Dayananda Sagar College of Engineering
14.	04.10.2021 - 08.10.2021			Alternative Fuels: Bio fuels	PDA College of Engineering, Kalaburagi.
15.	25.10.2021 - 29.10.2021		FDP	Inculcating Universal Human Values	AICTE
16.	04.01.2021 - 08.01.2021	Mr.V.Moorthi	FDP	Programme on "Advanced Technologies	Karpaga Vinayaga College of Engineering &

		T	T	T . A	
				in Automotive	Technology
				system -	
		4		ATAS'21"	
				Energy	
				Harvesting	
17.	23.10.2021		Workshop	from Vibrating	SRM Institute of
	23,10,2021		l Torkshop	Structures:	Technology
				Applications	
				and Advances	
	22.03.2021			Materials	
18.	-	Mr.S.Kannan	STTP	Characterizatio	IIT, Indore
	27.03.2021			n Techniques	
		DEPARTMENT OF I	MANAGEMEN	T STUDIES	
					Bikaner Technical
				Strategy of	University, Bikaner
	24 02 2024			Managing	in collaboration with
1.	31.03.2021			Personal	Association of
			500	Finances	Mutual Funds in
					India
	16.02.2021		FDP	S 111 C 1 D	
2.	<del>-</del>	5 66 11 11 1		Setting Goals & Managing Time	
	22.02.2021	Dr.S.Subhashini			10T A 1
	23.03.2021			6.	ICT Academy
3.	-			Stress	
	27.03.2021			Management	
				Transformation	
	21.06.2021			through NAAC	Institute of
4.	&		Workshop	Accreditation	Academic Excellence
	22.06.2021			Process	
		Department of So	cience and Hu		
	17.05.2021		Matlab	Matlab	Pantech Solutions
1.	-		Master		
	17.06.2021		Class		
	24.06.2024	Mr.M.Kumar		Application of	Narasu's Sarathy
	21.06.2021			Mathematics in	Institute Of
2.	-			Science &	Technology , Salem
	26.06.2021		FDP	Technology	
	23.02.2021		]	Emotional	ICT Academy
3.	-	Ms.R.Banu		Intelligence	·
	27.02.2021			-	
			·		1

# MEMORANDUM OF UNDERSTANDING SIGNED ( JANUARY 2021 - JUNE 2021)

SI.No	Name of the Industry / Institute	Date of signing MoU	Purpose of signing MoU	Duration
1	VEI Technologies	11.03.2021	IPT, Inplant Training, Certificate courses, Internship	Life Time

# FACULTY JOURNAL PUBLICATIONS (JANUARY – JUNE 2021)

Sl.No	Name	Title of the Paper	Name of the Journal	ISBN/ISSN Number			
	Civil Engineering						
1.	Mrs.R.S.Gandhimathi Mrs.N.Silpa Mrs.T.Divya	An Experimental Study on Mechanical Properties of Concrete by Partial Replacement of fine Aggregate With Copper Slag and Foundry Sand.	Sambodhi Journal	2249-6661			
2.	Dr.A.Anbuchezian Mr.S.Sathishkumar Mrs.S.Shanmugapriya	Comparative Study of Steel Slag with coarse and fine aggregate and testing its binding properties with Bitumen					
3.	Mrs.R.S.Gandhimathi	Effectiveness of Wrapping in Enhancing the durability of concrete elements subjected to aggressive environment	International Journal of Innovative Research in Science, Engineering and Technology	2319-8753			
4.	Dr.A.Anbuchezian Mrs.N.Silpa Mrs.T.Divya	A Study on removal of chromium using the mixture of bagasse ash and coal ash	Sambodhi Journal	2249-6661			
5.	Mr.R.A.Shivasakthi vadivelan	Experimental study on the replacement of fine aggregate and coarse aggregate using fly ash and chebulicmyrobalan Experimental study on activated high volume fly ash concrete	Aegaum Journal	0776-3808			
	Departm	ent of Electronics and Communicat	ion Engineering				
1.	Mr.M.Jestin Joseph	Improving the performance of TCP flows in wireless networks by using TCP aware backpressure and AODV algorithms	Turkish Journal of Computer and Mathematics Education	1952-1957			

## **BOOK /CHAPTER PUBLICATION BY FACULTY MEMBERS (JANUARY – JUNE 2021)**

	Department of Mechanical Engineering								
Sl.No	Name	Title of the book /Chapter	ISBN No	Edition	Publication				
1	Dr.C.Thiruvasagam Dr.S.Saravanan Dr.M.Vairavel Er.P.Vignesh	Dual Fibre Reinforced Composites Using Automotive Materials	978-81- 947343-3-8						

	Er.S.Arunachalam Er.M.Vignesh Er.K.Vignesh				
2	Dr. S. Saravanan Dr.C. Thiruvasagam Dr.M. Vairavel Ms.Vidhya Saravanan Mr.Anaitullah Mr.Ashok Sah Mr.S.Karan Kumar Mr.Abhishek Kumar	Methods and Measurements of Spring Back Evaluation	978-81- 947343-5-2	First Edition	Kalaivani Publishers
3	Dr. R. Pugazhenthi Er.M. Vairavel Dr. S.Kavitha Dr. P. Vivek Er. R. Girimurugan Er.T. Suresh	Problems Findings Friction Stir Welding on Dissimilar Material Process	978-81- 947343-6-9		
4	Dr. C. Thiruvasagam Prof. M. Vairavel Er.R. Vishnudas Er. S.Dinesh Kumar Er. S.Thendralvan Er.Tinupappachen	Problem Enhancements In Dual Fiber Reinforced Polymer Composites	978-81- 947343-2-1		

# STUDENTS ACHIEVEMENT (SYMPOSIUM, WORKSHOP, PAPER PRESENTATION AND COMPETITION)

S.No	Date	Name	Batch	Event	Title	College/Instituti on Name			
	Department of Automobile Engineering								
1.		Mr.H.Aravinth	2017-2021						
2.		Mr.P.Srinivasan	2017-2021		Programming Essentials in Python	ICT Academy			
3.	03.05.2021	Mr.S.Prakash	2017-2021	Training course					
4		Mr.T.Mahesh	2018-2022						
5		Mr.V.Ramamoorthi	2019-2023						
	Department of Civil Engineering								
1.	08.06.2020	Mr.S.Rajkumar	2018 - 2022	Code cracking	Virtual Code cracking	Dr.N.G.P. Institute of Technology			

2.	11.07.2020	Mr.P.Abinash Mr.D.Robin Raj Mr.S.Hariharan Mr.M.Sakthivel	2019 - 2023	Webinar	concepts of	Podhigai College of Engineering and Technology				
3.	12.12.2020	Mr.M.Kumaravel Mr.S.Santhosh kumar Mr.G.Rajaguru Mr.K.Mohan	2019 - 2023	workshop	Workshop on Quantity Surveying	Mohamed Sathak AJ College of Engineering				
4.	29.12.2020	Ms.J.Mymitha	2019 - 2023	Software course	Principles of design thinking	Autodesk design academy				
	Department of Computer Science Engineering									
			2019	Software	Cyber Security					
1.	29.04.2021	Ms.S.Malathy	- 2023	course	Essential	Cisco Networking Academy				
Department of Electronics and Communication Engineering										
			2017	Skill	Programming					
1.	10.03.2021	Ms.Shaik Shamsad	- 2021	Training	Essential in Python	ICT Academy				
2.	26.05.2021	Ms.N.Parthipan	2019 - 2023	NCFE sponsored program	Financial Awareness and Consumer Training"	Annapoorana Engineering College				
3.	05.06.2021	Ms.N.Padmapriya	2017 - 2021	Webinar	Embedded systems	N'kisi Institute of Training, Salem				
		Department of E	lectrical and Elec	ctronics Engi	neering					
1.	10.05.2021	Ms.S.Pradeep Ms.Mahima Thomas Mr.P.Manoj Mr.T.Mohanapriya								
2.	09.05.2021	Mr.N.Ajay Mr.A.Gurumoorthy Ms.M.Kalaivani	2017 - 2021	Training course	Data Visualization with Python	IBM Developer Skills Network				
3.	08.05.2021	Ms.Merin Thomas								
4.	04.05.2021	Ms.P.Padmavathi Ms.R.Aishwarya								
5.	07.05.2021	Mr.N.Ajay Mr.S.Pradeep Mr.K.Vasanth Ms.E.Prabhavathi Mr.Murugan E Ms.R.Ranjani	2017 - 2021	Training course	Programming Essentials in python	Cisco Networking Academy				

		Mr.V.Thangavel						
6.	20.03.2021	Ms.P.Padmavathi	2017	Webinar	Exploring MongoDB	Sona College of Technology		
			2021					
7.	12.03.2021	Ms.M.Kalaivani Ms.Mahima Thomas Ms.Merin Thomas Ms.P.Padmavathi	2017 - 2021	National level Workshop	Modelling of Solar & Wind energy system with design techniques of converter and inverter topologies	Karpagam Academy of Higher Education		
	Department of Mechanical Engineering							
1.	12.04.2021	Mr.V.Haridasskumar	2018 - 2022	Self-paced course	Programming Essentials in Python	ICT Academy		
2.	29.05.2021	Mr.V.Haridasskumar Mr.S.Mani Kandan Mr.Tennish Kumar	2018 - 2022	Webinar	Contribution of Family Managed Business in Development of Indian Economy	Acropolis institute of management Studies & Research, Indore (M.P.)		

# PATENT PUBLICATIONS (JANUARY – JUNE 2021)

Date of filing of Application	Publication Date	Title of the invention	Name of Applicant	The Patent Office Journal No.			
Department of Electronics and Communication Engineering							
08.02.2021	12.02.2021	Embedded Based Hand Writing Device to Reach a Product while shopping in a Departmental store	Mr.B.Ramesh, ASP/ECE Mr.M.Jestin Joseph, AP/ECE Mrs.E.Sharmila, AP/ECE Mrs.J.Jothilakshmi, AP/ECE Mrs.S.Devipriya, AP/ECE	07/2021			
25.04.2021	30.04.2021	A design and development of isolated health care system using IOT	Mr.B.Ramesh, ASP/ECE	18/2021			
Department of Mechanical Engineering							
09.01.2021	19.01.2021	High Strength Light weight Auxetic Ameba	Mr.M.Vairavel Mr.J.Bensamraj Mr.R.Pugazhenthi	ANCZ- 20211000			

		Helmet		
20.01.2021	270.01.2021	COVID-19 Special Multipurpose self cooling Baby care spoon set	Mr.R.Manivannan Mr.S.Prabakar Mr.G.Kathiresan Mr.M.Vairavel	ANCZ- 2110072892

#### **AEC IN PRESS**









சேலம், பிப்.24: சேலம் பெரி யசி ரசாபாடி யில உள்ள அள்ள பூரணை பொறியி யல் கல்லூரியில் 'தொழில் முனைவோருக்கான புதிய குளழில் நட்பம்" எனும் தலைப்பில் வேதியியல் துறை சார்பில், ஒரு நாள் கருத்தால் கம் நடைபெற்றது. கல்லூரி முதல்வர் அன்புசெழியார்.

தலையை தாங்களார். விஎப்பேகேவி கலை அறி அன்பழகன் சிறப்பு விருந் தின்பரசுன் சிறப்பு விருந் தின்றாக கலந்து கொண்டு பேசு கையில், 'தொழில் துறையில் சாதிக்க வேண் கும் என்றால் களராக இயந் முதலீடு தேவை என் இற அச்சம் கூடாது. பொறியி யல் மாணவர்கள், பிறருக்கு வேலை வாய்ப்பை தருகிற தொழில் முனைவர்களாக மாற வேண்டும்,' என்றார்:

விழா வில் முதலா மாண்டு டீன் சரவணன், 1QA Cell இயக்குனர் சுபா ஷினி, நிர்வாக அதகாரி ஞானப்பிரகாஷ், துறைத்த வைர்கள், பேரானிரியர் கள் மற்றும் மாணவ, மாண விகள் கலந்து கொண்டனர். இதற்கான ஏற்பாடுகளை பேதிவியல் துறைத்தலைவர் தைவை மற்றும் பேராகிரி யர் ராஜ்குமாச் ஆகியோர் செயிறேந்தனர்.







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## ANNAPOORANA ENGINEERING COLLEGE

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

## ISO 9001:2015 Certified Institution

NH-47 Sankari Main Road, Periyaseeragapadi, Salem-636308, Tamilnadu.

Phone: 97869 11333 / 94420 00648

Email: principalaecsalem@gmail.com / annapooranaengineeringinfo@gmail.com

Website: www.aecsalem.edu.in