



# Annapoorana Engineering College

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

An ISO 9001 : 2015 Certified Institution

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



## AEC Chronicle

# NEWSLETTER

Volume : 3, 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".

### **Guest Lecture on “Spintronics and its Application”**



A one day guest lecture on “Spintronics and its Application” was organized by the department of Electronics and Communication Engineering on 11/1/2020. Prof.Dr.P.Rameshkumar, Professor from Sengunthar Engineering College was the keynote speaker on the topic. Spintronics or spin electronics is the study of the role that is played by the spin of an electron in the solid-state physics and other devices that exploit spin properties. Spintronics is also known as spin Flextronics is the study of the intrinsic spin of the electrons and its associated magnetic moment, in addition to fundamental electronic charge in solid-state devices. For example, spin transport and spin relaxation in semiconductors and metals are important solid-state physics issues that are included in the fundamental research along with new technology being implemented in the electronic storage technology. Spintronics helped in creating a prototype device which used in industry as a read head and a memory-storage cell is the giant-magneto resistive (GMR) sandwich structure which consists of alternating ferromagnetic and non-magnetic metal layers. Depending on the relative orientation of the magnetizations in the magnetic layers, the device resistance changes from small (parallel magnetizations) to large (antiparallel magnetizations).

### **One day seminar “Introduction to PIC Microcontroller”**



One day seminar on Introduction to PIC Microcontroller was organized on 29/1/2020 by Electronics and Communication Engineering department. Mr.V.Sasi kumar, Mikrosun Technology,

Salem was the keynote speaker for the morning session. PIC microcontroller was developed in the year 1993 by microchip technology. The term PIC stands for Peripheral Interface Controller. Initially this was developed for supporting PDP computers to control its peripheral devices, and therefore, named as a peripheral interface device. These microcontrollers are very fast and easy to execute a program compared with other microcontrollers. PIC Microcontroller architecture is based on Harvard architecture. PIC microcontrollers are very popular due to their ease of programming, wide availability, easy to interfacing with other peripherals, low cost, large user base and serial programming capability (reprogramming with flash memory), etc. At present PIC microcontrollers are extensively used for industrial purpose due to low power consumption, high performance ability and easy of availability of its supporting hardware and software tools like compilers, debuggers and simulators. PIC (Programmable Interface Controllers) microcontrollers are the worlds smallest microcontrollers that can be programmed to carry out a huge range of tasks. These microcontrollers are found in many electronic devices such as phones, computer control systems, alarm systems, embedded systems, etc. Various types of microcontrollers exist, even though the best are found in the GENIE range of programmable microcontrollers.

### **One Day National Level Seminar on “Application of Mathematics in Day to Day life”**



A One-day National Level Seminar “Application of Mathematics in Day to Day life” was conducted by the Department of Mathematics on 13.03.2020 at Dr. A. Shanmugasundaram Seminar Hall. Dr.S.Shanmugasundaram, professor, Government Arts College, Salem was the resource person for the seminar. The ceremony was presided over by Dr.A.Anbuchejian, Principal, Annapoorana Engineering College.

The main aim of the seminar is to enrich the real life knowledge and to develop the skill of application in Mathematics. Around 100 students of our college and various college participated. It helped the students in developing their skills and gaining in-depth subject knowledge of mathematics in day to day Life.

Dr. O. Saravanan, First Year Dean, Heads of various departments, and Students from various college participated in the event. Mr. M.Kumar, HOD of mathematics and R. Ezhilarasi and Mrs.M.Ragapriya Department of Mathematics making arrangements for the ceremony did well.

### Internal Quality Assurance Cell of Annapoorana Engineering College Organized Webinar Series - Phase 1



The poster for the webinar series features the college's logo and name at the top, followed by accreditation details. The main title is 'Internal Quality Assurance cell organizes Webinar Series (28th & 29th Apr, 2020) Webseries - Phase I'. Below this, four sessions are listed with speaker names, topics, and times. At the bottom, there is a 'REGISTER NOW' button, contact numbers, and QR codes.

**ANNAPOORANA ENGINEERING COLLEGE**  
AFFILIATED TO ANNA UNIVERSITY, CHENNAI. APPROVED BY AICTE, NEW DELHI  
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NH-47, Sankari Main Road, Periyasergapadi, Salem - 636 308.  
(T: 94420 00648, 95005 09984 | www.aecsaalem.edu.in)

**Internal Quality Assurance cell**  
organizes  
**Webinar Series**  
(28th & 29th Apr, 2020)  
**Webseries - Phase I**

**Mrs. R.S. Gandhimathi**  
Stress Management  
28-04-2020 @10.00am to 11.00am

**Mr. C. Devasenapathi**  
Inverse z transform in signals and system  
28-04-2020 @11.15am to 12.15pm

**Dr. S. Subhashinie**  
COVID -19 and Management  
29-04-2020 @10.00am to 11.00 am

**Dr. T. Bhuvanewari**  
Overcome Procrastination  
29-04-2020 @ 11.15am to 12.15pm

**REGISTER NOW**  
94420 00648, 95005 09984  
www.aecsaalem.edu.in

Internal Quality Assurance Cell of Annapoorana Engineering College organized Web series - Phase 1 for 2 days on April 28 & 29 , 2020 through Online platform.

On Day 1, for the 1<sup>st</sup> session between 10.00am-11.00am, **Mrs.R.S.Gandhimathi, Associate professor - Civil Engineering, AEC** was the resource person for the topic “Stress Management”. During her session, she elaborated on the major stress causing factors and its impact on our mind and body. She also explained the ways to overcome stress and suggested a few stress busters to lead a healthy and happy life. She concluded her session by quoting “its not stress that kills us, but it is our reaction to it.”

For Day 1, 2<sup>nd</sup> session between 11.15am-12.15pm, **Mr.C.Devasenapathy, Assistant Professor, Dept. of ECE, AEC** was the speaker on topic “Inverse Z transform in Signals and Systems”. In the session, the speaker focused on Mathematics and signal processing. He also pointed on the Region of Convergence Edit and its functions. Finally he concluded with four following ways to determine the inverse Z transformation.

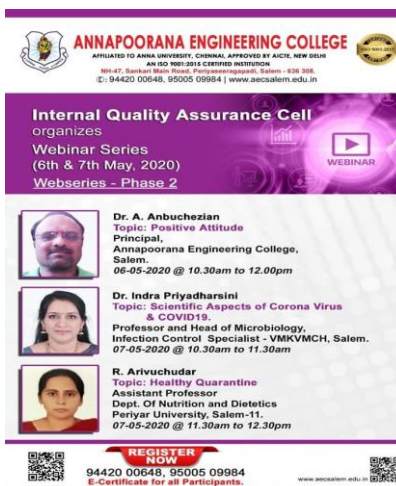
On Day 2, for the 1<sup>st</sup> session between 10.00am-11.00am, **Dr.S.Subhashini, Assistant Professor, Dept. of Management Studies, AEC** was the speaker, on topic “COVID-19 & Management” between 10.00 am-11.00am. The speaker in her speech, clearly explained the application of various

Management Concepts are related to the current COVID-19 Situation and she also insisted on the importance of personal hygiene, social distancing and self quarantine to keep ourselves safe from the Corona Virus Disease.

For Day 2, session 2, between 11.15am-12.15pm, **Dr.T.Buveneswari, Associate professor, Dept. of CSE, AEC** was the speaker on topic “Overcome Procrastination”. The speaker clearly explained the ways procrastination develops in ourselves and its impact on our day-to-day lives and the various ways to overcome procrastination to live a better life. She also explained the advantages that one could derive on overcoming procrastination. “Change your thinking, Change your lives” was her concluding remark.

For both the days, Dr. A. Anbuhezian, Principal welcomed and thanked the speakers and the participants . Around 90+ participants were present for each of the session.

### Internal Quality Assurance Cell of Annapoorana Engineering College Organized Webinar Series - Phase 2



The poster for the webinar series features the college's logo and name at the top. Below this, it lists the organizing body as the Internal Quality Assurance Cell, with the dates 6th and 7th May 2020. A central graphic shows a play button icon with the word 'WEBINAR' next to it. Three speakers are listed with their respective topics and schedules: Dr. A. Anbuhezian (Positive Attitude, 06-05-2020 @ 10.30am to 12.00pm), Dr. Indra Priyadharshini (Scientific Aspects of Corona Virus & COVID19, 07-05-2020 @ 10.30am to 11.30am), and R. Arivuchudar (Healthy Quarantine, 07-05-2020 @ 11.30am to 12.30pm). At the bottom, there is a 'REGISTER NOW' button, contact information (94420 00648, 95005 09984), and a QR code.

Internal Quality Assurance Cell of Annapoorana Engineering College organized Webseries - Phase 2, for 2 days on May 06 & 07, 2020 through Online platform.

On Day 1, for the webinar session between 10.30am-12.00pm, **Dr.A.Anbuhezian, Principal, AEC** was the resource person for the topic “Positive Attitude”. During the session, the speaker clearly pointed out the ways to create and maintain positive attitude among humans. He also pointed out that, People with positive attitudes can remain hopeful and see the best even in difficult situations. The resource person concluded the session with a quote “Stay strong, stay positive”. Dr.S.Subhashini, Director-IQAC welcomed and thanked the Principal for the enlightening speech.

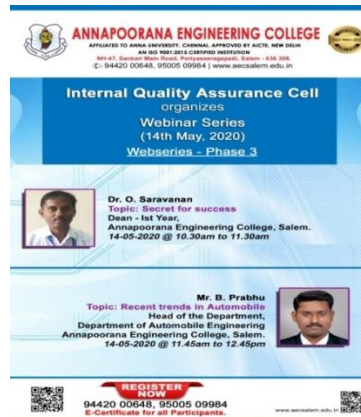
On Day 2, for the 1<sup>st</sup> webinar session between 10.30am-12.00pm, **Dr.Indra Priyadharshini, Professor& Head – Microbiology, Infection Control Specialist, VMKVMCH, Salem** was the Guest

Speaker. The topic for the session was “Scientific aspects of Corona Virus & Covid19”. The speaker clearly indicated the symptoms of COVID and the various precautionary measure that can be taken to prevent ourselves from the virus infection. She also gave tips on personal hygiene that could make our lives better and healthy.

On Day 2, for the 2<sup>nd</sup> session of the webinar, between 10.30am-11.30pm, **Mrs.R.Arivuchudar, Assistant Professor, Dept. of Nutrition & Dietetics, Periyar University, Salem** was the Guest Speaker. The topic for the session was “Healthy Quarantine”. During the speech, the guest gave insight to the various healthy food habits and exercises that need to be followed, not just during quarantine, but also during the normal days of our life. “To beat the heat” of summer during quarantine, the speaker also insisted on the quantity of liquid intake that has to be followed by all of us. “What you eat is, what you are” was her concluding remark.

Dr. A. Anbuhezian, Principal welcomed and thanked the guest speakers for their informative speech and the participants for the interest shown in participating in the event. Nearly 100 participants were present for each of the session.

### Internal Quality Assurance Cell of Annapoorana Engineering College Organized Webinar Series - Phase 3 –Part 1



The poster for the webinar series is titled "Internal Quality Assurance Cell organizes Webinar Series (14th May, 2020) Webseries - Phase 3". It features two speakers: Dr. O. Saravanan, Dean - 1st Year, Annapoorana Engineering College, Salem, on 14-05-2020 @ 10.30am to 11.30am, with the topic "Secret for success"; and Mr. B. Prabhu, Head of the Department, Department of Automobile Engineering, Annapoorana Engineering College, Salem, on 14-05-2020 @ 11.45am to 12.45pm, with the topic "Recent trends in Automobile". The poster includes the college logo, contact information, and QR codes for registration. A red banner at the bottom says "REGISTER NOW" and "E-Certificate for all Participants".

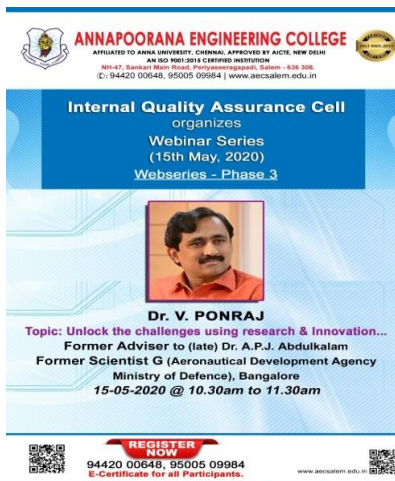
Internal Quality Assurance Cell of Annapoorana Engineering College organized Webseries - Phase 3 –Part 1, May 14<sup>th</sup>, 2020 in two sessions, through Online platform. For the 1<sup>st</sup> webinar session between 10.30am-11.30am, **Dr.O.Saravanan, Dean 1<sup>st</sup> Year, AEC** was the resource person for the topic “Secret for Success”. During the session, the speaker enunciated about the secret of success. He also gave tips on how people achieve success in an easy way. He emphasized that, success does not see the gender, race and caste, and it will be with the people who have the optimistic attitude to do the work.

He also shared few stories to understand the concept of magical wavelength, and how it

determines the fate of a person. He insisted that one's thought is the only reason of every positive and negative thing happening in their life.

For the 2<sup>nd</sup> session between 11.45am- 12.45pm, **Mr.B.Prabhu, Head, Department of Automobile Engineering, AEC** was the resource person for the topic "Recent Trends in Automobile Engineering". The speaker during his speech, discussed on the various recent trending technologies used in Automobile Engineering Industries. He also covered details on safety methods used in automotive vehicles, Google Driverless Cars, Automated Manual Transmission (AMT), Vehicle-to-Vehicle communication technology, Pre-Collision Technology, Smart Cars, Start-Stop Technology, Land Rovers invisible car, Air Bag safety, Tubeless tires, Tyreless wheels or Airless wheels, Parking Sensors, Anti-lock braking system, Night vision with pedestrian detection and Flying car . Dr. A. Anbuhezian, Principal, Annapoorana Engineering College welcomed the resource persons of both the sessions and Dr.S.Subhashini, Director-IQAC thanked the guest speakers for their informative speech.

### Internal Quality Assurance Cell of Annapoorana Engineering College Organized Webinar Series - Phase 3 –Part 2



The poster for the webinar series features the Annapoorana Engineering College logo at the top, which includes the college name, affiliation to Anna University, Chennai, and approval by AQAC, New Delhi. Below the logo, it states "AN ISO 9001:2015 CERTIFIED INSTITUTION" and provides contact information: "94420 00648, 95005 09984 | www.aecsaalem.edu.in". The main text of the poster reads: "Internal Quality Assurance Cell organizes Webinar Series (15th May, 2020) Webseries - Phase 3". A central photograph shows Dr. V. Ponraj, a man with a mustache wearing a red shirt. Below the photo, his name "Dr. V. PONRAJ" is printed in bold. The topic is listed as "Topic: Unlock the challenges using research & Innovation...". His credentials are given as "Former Adviser to (late) Dr. A.P.J. Abdul Kalam" and "Former Scientist G (Aeronautical Development Agency Ministry of Defence), Bangalore". The date and time are "15-05-2020 @ 10.30am to 11.30am". At the bottom, there is a "REGISTER NOW" button, the contact number "94420 00648, 95005 09984", and the note "E-Certificate for all Participants." along with two QR codes and the website "www.aecsaalem.edu.in".

Internal Quality Assurance Cell of Annapoorana Engineering College organized Webseries - Phase 3 – Part 2, on May 15<sup>th</sup>, 2020 through online platform.

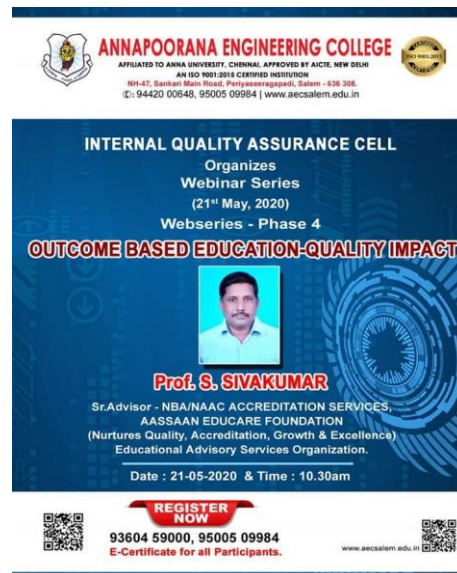
**Dr.V.Ponraj , Former Adviser to (late) Dr.A.P.J.Abdul Kalam , Former Scientist G (Aeronautical Development Agency , Ministry of Defense), Bangalore** was the guest speaker for the topic "Unlock the challenges using research and Innovation". The session began with Dr. A. Anbuhezian, Principal, Annapoorana Engineering College welcoming the guest speaker and the participants. The Principal also shared an introductory note about the distinguished speaker.



Dr.V.Ponraj during his speech spoke on Research activities that must be carried out to overcome the challenges our country is facing in day-to –day lives. The speaker also insisted that as responsible teachers, we must encourage our students to focus more on innovations and enable them to widen their knowledge on technical and scientific aspects. He also reiterated that, when compared to other developing countries, India is marching much ahead in Research & Innovations. He also spoke on the initiatives made by Indian Government to promote Research and Innovations in our Country.

Dr.S.Subhashini, Director – IQAC thanked the guest speakers for his informative speech and the participants for the interest shown in participating in the event. Nearly 100 participants participated in the webinar session and got benefitted.

### Internal Quality Assurance Cell of Annapoorana Engineering College Organized Webinar Series - Phase 4 – Part 1



The poster for the webinar series features the logo of Annapoorana Engineering College at the top left, which is affiliated to Anna University, Chennai. The college is approved by AICTE, New Delhi and is an ISO 9001:2015 certified institution. The poster text includes: 'INTERNAL QUALITY ASSURANCE CELL Organizes Webinar Series (21<sup>st</sup> May, 2020) Webseries - Phase 4 OUTCOME BASED EDUCATION-QUALITY IMPACT'. A portrait of Prof. S. Sivakumar is shown, with his name in red. Below his name, it states: 'Sr. Advisor - NBA/NAAC ACCREDITATION SERVICES, AASSAAN EDUCARE FOUNDATION (Nurtures Quality, Accreditation, Growth & Excellence) Educational Advisory Services Organization.' The date and time are listed as 'Date : 21-05-2020 & Time : 10.30am'. At the bottom, there is a 'REGISTER NOW' button, the contact number '93604 59000, 95005 09984', and the website 'www.aecsaalem.edu.in'. Two QR codes are also present for registration.

Internal Quality Assurance Cell of Annapoorana Engineering College organized Webseries - Phase 4 – Part 1 on May 21, 2020 through online platform, on the topic “Outcome Based Education – Quality Impact”. Around 92 participants participated in this session. **Prof.S.Sivakumar, Sr.Advisor - NBA/NAAC Accreditation services, Aasan Educare Foundation, Chennai**, was the Guest Speaker for the session. Dr. A. Anbuchejian, Principal warmly welcomed the speaker and the participants to the session.

During his speech, the speaker clearly explained the Procedure for Applying for NAAC and the various criterion of NAAC. Prof.Sivakumar also explained the importance of Quality in education these days and the effect of Outcome Based Education on student life. He also differentiated clearly about the traditional educational system and the modern OBE system of education. “OBE is an educational

theory that bases each part of an educational system around goals (outcomes). By the end of the educational experience, each student should have achieved the goal. There is no single specified style of teaching or assessment in OBE; instead, classes, opportunities, and assessments should all help students achieve the specified outcomes' Prof.Shivakumar reiterated. The session was much informative throughout and he also took all effort to clarify the queries raised by the participants. Dr.S.Subhashini, Director-IQAC thanked the guest speaker for the edifying and informative speech.

### Internal Quality Assurance Cell of Annapoorana Engineering College Organized Webinar Series - Phase 4 – Part 2



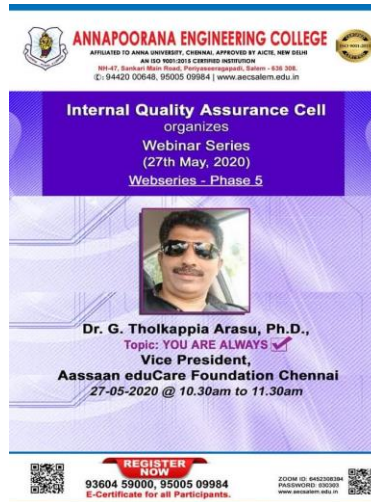
The poster for the webinar series features the Annapoorana Engineering College logo at the top, which includes the college name, affiliation to Anna University, Chennai, and approval by AICTE, New Delhi. Below the logo, it states 'AN ISO 9001:2015 CERTIFIED INSTITUTION' and provides contact information: 'No-47, Sakkarai Block Road, Pattanamangalam, Salem - 636 306, (C: 94420 00648, 95005 09984 | www.aecsaalem.edu.in)'. The main text of the poster reads: 'INTERNAL QUALITY ASSURANCE CELL Organizes Webinar Series (22<sup>nd</sup> May, 2020) Webseries - Phase 4'. The title in Tamil is 'உஷார் உன்னுடன் உஷார்'. A central image shows a man in a striped shirt holding a green ball. Below the image, the speaker's name is given as 'தரு. தாமு அவர்கள்' (Mr. A.V. Dhamodharan). His credentials are listed as 'மேதகு, பாக்டர், அப்துல் கலாம் அவர்களின் சீடர் மாணவர் தளபதி சிறப்பு மாணவர் பயிற்சியாளர்'. The date and time are 'Date : 22-05-2020 & Time : 11.30am'. At the bottom, there is a 'REGISTER NOW' button, the phone number '93604 59000, 95005 09984', and the text 'E-Certificate for all Participants'. Two QR codes are also present for registration.

Internal Quality Assurance Cell of Annapoorana Engineering College organized Webseries - Phase 4 –Part 2, on May 22, 2020 through online platform, on the topic “Unnudan Ushar”. Around 98 participants participated in this session. **Mr. A.V. Dhamodharan , (popularly known as Dhamu in Tamil Cinemas), Indian Actor and comedian,** and who also worked as a **follower to the former Indian President A.P.J. Abdul Kalam** for seven years and also children education Advocate was the Guest Speaker for the session. Dr. A. Anbuechian, Principal welcomed the speaker and the participants and Dr.O.Saravanan introduced the guest speaker to the participants.

During his speech, Mr. A.V. Dhamodharan focused on Awareness about Covid-19 and the importance of social responsibility of each and every citizen. The guest also mentioned that there are also various other invisible virus present in human beings, such as arrogance, cynical, impoliteness, aloofness, cruelty, cowardliness, etc., and we should be cautious enough to identify these viruses and evade them from ourselves. He also insisted on the importance of human values, and being aware of

all unforeseen situations ahead of us. Dr.S.Subhashini, Director – IQAC proposed the thanking note and the session thus ended.

## Internal Quality Assurance Cell of Annapoorana Engineering College Organized Webinar Series - Phase 5 – Part 1



Internal Quality Assurance Cell of Annapoorana Engineering College organized Webseries - Phase 5 - Part 1, on May 27<sup>th</sup>, 2020 through Online platform on the topic “You are always Right”. **Dr.G.Tholkappia Arasu, Vice President, Aasan eduCare Foundation, Chennai** was the guest speaker. Around 100 participants participated in this session. Dr.A.Anbuchejian, Principal, welcomed the guest speaker and the participants for the session.

In his speech, the Guest Speaker said that, while doing any actions, “We should follow our brains, rather than our hearts” and we should care much less about our peer thinking on our actions. He said that the words and actions of others, should not affect our own actions. “Follow your brains and go get your Dreams”. “We should develop a passion and work towards that passion with full heart & soul in it “was his concluding remark. The speaker carried on the session in a very interesting manner. Dr.S.Subhashini, Director-IQAC thanked the guest speaker for the interesting and remarkable speech.

## Internal Quality Assurance Cell of Annapoorana Engineering College organized Webinar Series - Phase 5 - Part 2



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Internal Quality Assurance Cell  
organizes  
Webinar Series  
(28th May, 2020)  
Webseries - Phase 5



**Sadhanandavel Ramdoss**  
Topic: Your passion and profession  
**Associate Vice President,**  
**Littlemore innovation labs, Chennai**  
28-05-2020 @ 10.30am to 11.30am

REGISTER NOW  
93604 59000, 95005 09984  
E-Certificate for all Participants.

Zoom ID: 8462208384  
PASSWORD: 932021  
www.aecsaalem.edu.in

Internal Quality Assurance Cell of Annapoorana Engineering College organized Webseries - Phase 5 – Part 2, on May 28<sup>th</sup>, 2020 through Online platform. **Mr.Sadhanandavel Ramodoss, Associate Vice President, Littlemore Innovation Labs, Chennai** was the guest speaker. Dr.A.Anbuchejian, Principal, welcomed the guest speaker and the participants for the session.

The guest speaker chose “Your Passion and Profession” as topic for his webinar session. During his speech, Mr.Sadhanandavel, elaborated that each one of us must take efforts to develop our interest into passion and this Passion need not be same as one’s Profession. Though the Profession is different from our passion, we must take all efforts to hold on to our passion and expertise in our own passion.

“We must not allow our Passion or Profession to suppress each other, as each of it holds its own values” Mr.Sadhanandavel insisted. Around 95 participants participated this online webinar session. Dr.S.Subhashini, Director-IQAC thanked the guest speaker for the informative and interesting speech.

## Internal Quality Assurance Cell of Annapoorana Engineering College organized Webinar Series - Phase 6 - Part 1



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Internal Quality Assurance Cell  
organizes  
Webinar Series  
(4th June, 2020)  
Webseries - Phase 6

**A GENTLE INTRODUCTION TO TAMIL MUSIC**



**Dr.G. Kumaraguruparan**  
Associate professor  
Department of Mechatronics Engineering,  
Thiagarajar College of Engg, Madurai  
04-06-2020 @ 10:30am to 11:30am

REGISTER NOW  
93604 59000, 95005 09984  
E-Certificate for all Participants.

Zoom ID: 8462208384  
PASSWORD: 932021  
www.aecsaalem.edu.in

Internal Quality Assurance Cell of Annapoorana Engineering College organized Web series - Phase 6, on June 4<sup>th</sup>, 2020 through Online platform. **Dr.G.Kumaraguruparan, Associate Professor, Department of Mechatronics Engineering, Thiagarajar College of Engineering, Madurai** was the guest speaker. The topic for the webinar session was “ A Gentle Introduction to Tamil Music”. Dr.A.Anbuchejian, Principal, welcomed the guest speaker and the participants for the Web series.

The guest speaker of the day gave an introduction about our heritaceous Tamil Music and about Natabairavu, which is a rāgam in Karnatic music . Dr.G.Kumaraguruparan, also explained that “Swaras have about 12 different forms and different combinations of these swaras are made to sit under the names of different ragas. The specific code of a song clearly tells us what combinations of swaras are present in a specific song”. The session was conducted in an interactive and enthusiastic manner. Around 90 participants participated in this online webinar. Dr.S.Subhashini, Director-IQAC thanked the guest speaker for the interesting session.

### **The Department of Computer Science and Engineering in Association with AEC-IQAC organized Webinar Series - Phase 6 –Part 2**



The poster for the webinar series is titled "Internal Quality Assurance Cell & Department of Computer Science Engineering organizes Webinar Series (5th June, 2020) Webseries - Phase 6". The main theme is "LET'S PRACTICALLY DESIGN A CLOUD ARCHITECTURE". The guest speaker is Dr. M. Suresh, Solution Architect at VMG Digital Pvt Ltd., Chennai, with the session scheduled for 05-06-2020 @ 11:30am to 01:00pm. The poster includes the logo of Annapoorana Engineering College, contact information, and a QR code for registration. The registration details are: REGISTER NOW, 93604 59000, 9865756478, E-Certificate for all Participants, and ZOOM ID: 845228934.

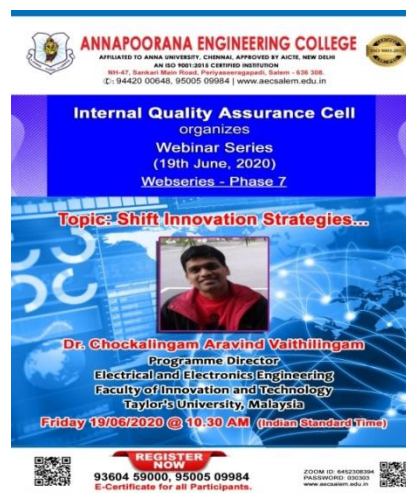
The Department of Computer Science and Engineering in association with AEC-IQAC organized a One Day Webinar on “Let’s Practically Design a Cloud Architecture” on June 5<sup>th</sup>,2020 through Online platform. Dr .A. Anbuchejian, Principal, Annapoorana Engineering College started the session with the warm welcome to the chief guest and the participants for the session. Dr. S. Sharavanan, Vice-Principal, AEC gave an introductory speech about cloud architecture and the program thus began.

Dr.T.Buvaneswari, Asso.Prof / CSE welcomed **Dr. Suresh Madhesan, Solution Architect, VMG Digital Pvt. Ltd., Chennai**, the Guest Speaker and the participants. There were total of 76 participants, who attended the webinar.

Dr. Suresh presented his session on the topic of Cloud computing, introduction about AWS and its services, Server Architecture - Amazon EC2, Server-less Architecture - Amazon S3 and Lambda Functions and also discussed about Industry 4.0. During his presentation he spoke about the three types of Cloud services, how to purchase cloud storage, Serverless architecture and the Amazon Web services.

He also explained about the security in Amazon Cloud and his speech helped the participants to know how to host a Static Website. He gave the demo of Lambda services. The speaker also insisted on the importance and the evolution of industry 4.0. Mrs. R. Umamageswari, Asst.Prof./CSE, AEC proposed the vote of thanks and the session thus ended.

### Internal Quality Assurance Cell of Annapoorana Engineering College organized Webinar Series - Phase 7 – Part 1



The poster for the webinar series is titled "Internal Quality Assurance Cell organizes Webinar Series (19th June, 2020) Webseries - Phase 7". The topic is "Shift Innovation Strategies...". The guest speaker is Dr. Chockalingam Aravind Vaithilingam, Programme Director, Electrical and Electronics Engineering, Faculty of Innovation and Technology, Taylor's University, Malaysia. The webinar is scheduled for Friday, 19/06/2020 at 10:30 AM (Indian Standard Time). The poster includes a QR code for registration, the contact number 93604 59000, 95005 09984, and a note that an E-Certificate will be provided for all participants. The Annapoorana Engineering College logo and affiliation details are also present at the top.

Internal Quality Assurance Cell of Annapoorana Engineering College organized Webseries - Phase 7 - Part 1, on June 19<sup>th</sup>, 2020 through Online platform. **Dr.Chokalingam Aravind Vaithilingam, Associate Professor, School of Computer Science & Engineering, Faculty of Innovation & Technology, Taylors University, Malaysia** was the guest speaker. The topic for the webinar session was "Shift Innovation Strategies". Dr.A.Anbuchejian, Principal, welcomed the guest speaker and the participants for the Webseries.

Dr.Aravind in his speech mentioned that "Innovation is a process that results in improvement of product, process, methods and understanding". He also said that "Innovative individuals bring with them the skills of design thinking, optimistic, enjoy collaboration and have the ability to see the world from many perspectives and are always building empathy wherever they go".

Dr.Aravind reiterated that, the small innovative thoughts lead to bigger ideas. Not ignoring even the smaller ideas that arise in our minds would definitely lead to ultimate success. The session was carried on with much interesting examples on innovation. The session was conducted in an interactive and enthusiastic manner. Around 110 participants participated in this online webinar. Dr.S.Subhashini, Director-IQAC thanked the guest speaker for the informative and thought provoking session.

### The Department of Automobile and Mechanical Engineering in association with IQAC jointly organized Five Days Online Faculty Development Programme

**ANNAPOORANA ENGINEERING COLLEGE**  
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 9th & 10th Cross Street, Palayamkottai, Salem - 636 305  
 T: 94420 00648, 95005 05984 | www.aecol.ac.in

**Five Days Online Faculty Development Programme on  
 An overview on Automobile & Mechanical Engineering**  
 (30<sup>th</sup> June -4<sup>th</sup> July, 2020)  
 Organized by: Internal Quality Assurance Cell &  
 Department of Automobile and Mechanical Engineering Association

|  |  |
|--|--|
|  | <b>ENGINEERING MECHANICS</b><br>Dr. ANAND PARTHEEBAN, C. M.,<br>M.E., MBA., Ph.D., M.A (crime), D. Epigraphy.,<br>CEO, AMMA IAS ACADEMY, Coimbatore<br>30.06.2020 @ 11.30AM to 12.30PM   |
|  | <b>NON DESTRUCTIVE TESTING</b><br>PROF. SIVASHANKARAN, M. M.E.,<br>DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY, SALEM<br>01.07.2020 @ 11.30AM to 12.30PM  |
|  | <b>GAS POWER CYCLES IN THERMAL ENGINEERING</b><br>PROF. PERIYANNAN, L.<br>M.E., MSW, MLM, MS(EM), PGDAM, DMM, DLLAL, MISTE, MIE., (Ph. D),<br>MAHENDRA ENGINEERING COLLEGE, NAMAKKAL<br>02.07.2020 @ 11.30AM to 12.30PM            |
|  | <b>APPLICATION OF GREY RELATIONAL ANALYSIS<br/>         MULTI RESPONSE OPTIMIZATION USING MS EXCEL</b><br>PROF. SREEHARAN, B. N. M.E., (Ph. D),<br>KUMARAGURU COLLEGE OF TECHNOLOGY, Coimbatore<br>03.07.2020 @ 11.30AM to 12.30PM |
|  | <b>PRACTICAL FINITE ELEMENT STRUCTURAL ANALYSIS</b><br>Er. RAJA, S<br>FEA ANALYST, BENGALURU<br>04.07.2020 @ 11.30AM to 12.30PM  |

Convenor: Dr. A. Ambuchezian, Principal  
 Co-convenor: Prof. M.P. Mohanraj, Mechanical Department  
 Moderator: Prof. B. Prabhhu, Automobile Department

**REGISTER HERE**  
 994853538, 994926272  
 Mail id: prabhu008@gmail.com  
<https://forms.gle/cv4t9Vf8uZf8C8CH47>  
 Registration fees: 1000/- INR  
 www.aecol.ac.in

The Department of Automobile and Mechanical Engineering in association with AEC- IQAC jointly organized Five Days Online Faculty Development Programme on the topic “An overview on Automobile and Mechanical Engineering” from 30<sup>th</sup> June 2020 till 4<sup>th</sup> July 2020.

On Day 1, **Dr. C.M. Anand Partheeban, MBA., Ph.D., M.A (crime), D.Epigraphy., CEO, AMMA IAS Academy, Coimbatore** was the keynote speaker and discussed on the topic “Engineering Mechanics”. The points discussed in the session were the vectorial and scalar representation of forces and moments , analyzing the rigid body in equilibrium , evaluating the properties of surfaces and solids , calculating dynamic forces exerted in rigid body and determining the friction and the effects by the laws of friction .

On Day 2, **Prof. M. Sivashankaran, M.E., Dhirajlal Gandhi College of Technology, Salem** was the keynote speaker for the title ‘Non Destructive Testing. In his speech, the guest speaker reiterated that, “Nondestructive testing (NDT) is a wide group of analysis techniques used in science and technology to evaluate the material or component of a system without causing damage”. Different Methods of NDT and its applications were also discussed in this seminar.

On Day 3, **Prof. L. Periyannan, M.E., MSW., MLM., MS(IEM)., PGDAM., DMM., DLLAL.,**

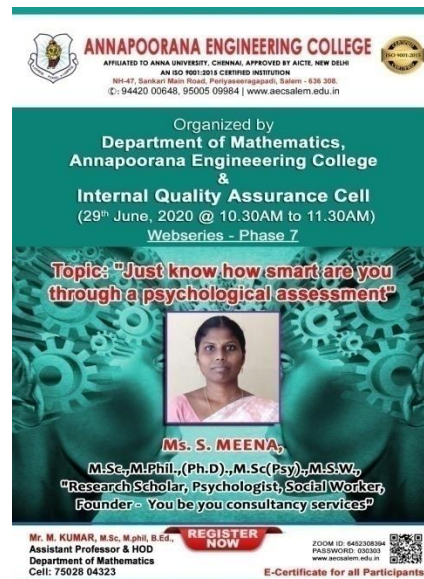
**MISTE.,MIE., (Ph.D.), Mahendra Engineering College, Namakkal** was the keynote speaker on the title “Gas Power Cycles in Thermal Engineering”. During the session, the guest speaker discussed in detail on cycles, and it’s working systems and medium, its operations and uses.

On Day 4, **Prof. B.N. Sreeharan, M.E., (Ph. D)., Kumaraguru College of Technology, Coimbatore**, was the keynote Speaker for the topic “Application Of Grey Relational Analysis-Multi Response Optimization Using Ms Excel”. The topics discussed were, single response optimization, multi- response optimization, and performing Grey Relational Analysis (GRA) in optimizing the process parameterswith respect to multi-response scenario.

On Day 5, **Er. S. Raja, M.Tech., FEA Analyst, Bengaluru**, was the keynote speaker on the title “Practical Finite Element Structural Analysis”. During the speech , the guest speaker discussed onintroduction to the concepts of Mathematical Modeling of Engineering Problems and ways to appreciate theuse of FEM to a range of Engineering Problems and about the types of analysis in practical applications.

For all the 5 days MR.B.Prabhu, Associate Professor, Department of Automobile Engineering welcomed and Mr.M.P.Mohanraj, Associate Professor, Department of Mechanical Engineering thanked the resource persons. Around 150 participants participated for all the sessions and received e-certificates.

### The Department of Mathematics in Association with AEC-IQAC organized Webinar Series - Phase 7 – Part 2



The poster for the webinar series features the Annapoorana Engineering College logo at the top, which includes the college name, affiliation to Anna University, and contact information. Below the logo, it states the event is organized by the Department of Mathematics and the Internal Quality Assurance Cell. The date and time are listed as 29th June, 2020, from 10:30 AM to 11:30 AM. The topic is "Just know how smart are you through a psychological assessment". The speaker is Ms. S. Meena, with her qualifications and roles listed. A "REGISTER NOW" button is present, along with Zoom and WhatsApp contact details and a QR code. The bottom of the poster mentions the contact person, Mr. M. Kumar, and provides a Zoom ID and WhatsApp number.

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Organized by  
**Department of Mathematics,**  
**Annapoorana Engineering College**  
&  
**Internal Quality Assurance Cell**  
(29<sup>th</sup> June, 2020 @ 10.30AM to 11.30AM)  
Webseries - Phase 7

**Topic: "Just know how smart are you through a psychological assessment"**

**Ms. S. MEENA,**  
M.Sc., M.Phil., (Ph.D.), M.Sc (Psy), M.S.W.,  
"Research Scholar, Psychologist, Social Worker,  
Founder - You be you consultancy services"

**REGISTER NOW**

Mr. M. KUMAR, M.Sc, M.Phil, B.Ed.,  
Assistant Professor & HOD  
Department of Mathematics  
Cell: 75028 04323

Zoom ID: 840208304  
WhatsApp: 9383901030  
www.aecsaalem.edu.in

E-Certificate for all Participants.

The Department of Mathematics in association with Internal Quality Assurance Cell of Annapoorana Engineering College organized Webinar Series - Phase 7 - Part 2, on June 29<sup>th</sup>, 2020 through



Online platform. **Ms.S.Meena, Founder- You be You Consultancy Services** was the guest speaker. The topic for the webinar session was “Just know how smart you are through a psychological assessment”. Mr.M.Kumar, Head - Department of Mathematics, AEC welcomed the guest speaker and the participants for the Webseries.

During the speech, the speaker clearly explained the multiple faces of humans, we meet every day in our lives, and how they ought to be dealt with. Ms.S.Meena also shared a psychometric assessment test, which brought out the understanding about the kind of person we are, what are our strengths and weakness. Around 90 participants participated in this online webinar. Dr.S.Subhashini, Director-IQAC thanked the guest speaker for the informative and interesting session.

### The Department of Civil Engineering in association with AEC- IQAC organized Three Days Faculty Development Programme

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**Three days faculty development programme webinar on  
An Overview on Recent Construction Materials**  
10<sup>th</sup> - 12<sup>th</sup> June, 2020  
Organized by : Internal Quality Assurance Cell & Department of Civil Engineering

**RECENT TRENDS IN CIVIL ENGINEERING**  
Dr. A. Anbuhezian  
Principal,  
Annapoorana Engineering College, Salem.  
10/06/2020 @ 11.30AM to 12.30PM

**MODERN CONSTRUCTION MATERIALS**  
Prof. K. Prasad Babu  
Professor & Head Department of Civil Engineering  
Mahendra College of Engineering, Salem.  
11/06/2020 @ 11.30AM to 12.30PM

**CONSTRUCTION MATERIALS USED IN OMAN**  
Mr. Deiveegan Ramasamy  
Lecturer, Civil and Architectural section,  
Engineering Department,  
Sallalah College of Technology, Salalah, Oman  
12/06/2020 @ 11.30AM to 12.30PM

Convenor: Dr. A. Anbuhezian, Principal  
Co-convenor: Prof. R.S. Ganeshimathi, Civil Department  
Moderator: Prof. S. Sathish Kumar, Civil Department

**REGISTER NOW**  
93604 59000, 97904 28776  
Registration Fee: Rs.100/-  
E-Certificate for all Participants.

The Department of Civil Engineering in association with AEC- IQAC organised Three Days Faculty Development Programme on “An Overview on Recent Construction materials” from 10.06.2020 to 12.06.2020. For each session around 130+ faculty members participated in the FDP and got benefitted.

**Session I** on 10.06.2020 was handled by **Dr.A.Anbuhezian, Principal, Annapoorana Engineering College** on the topic “Recent trends in Civil Engineering”.

**Session II** on 11.06.2020 was done by **Dr.K.Prasadbabu, Professor-Head of Civil Engineering, Mahendra College of Engineering, Salem** entitled “Modern Construction materials”.

**Session III** on 12.06.2020 was presented by **Mr.Deiveegan Ramasamy, Lecturer, Civil & Architectural section, Engineering department, Sallalah College of Technology, Oman** on

“Construction Materials used in Oman”. All the three sessions were carried on in a much interesting and productive manner. At the end of each session, the guest speakers clarified all the queries raised by participants with clear-cut informations. Mr.R.S.Gandhimathi, ASP / Civil , welcomed the guest speakers & Mrs.Shilpa, Asst.Prof/Civil , thanked the guests for all the three days session.

### **One Day National Level Seminar on “Cognitive Radio-LTE & its Convergence”**



The department of ECE organised One Day National Level Seminar on “Cognitive Radio-LTE & its Convergence”. Cognitive radio (CR) is a form of wireless communication in which a transceiver can intelligently detect which communication channels are in use and which are not, and instantly move into vacant channels while avoiding occupied ones. This optimizes the use of available radio-frequency (RF) spectrum while minimizing interference to other users. In its most basic form, CR is a hybrid technology involving software defined radio (SDR) as applied to spread spectrum communications. Possible functions of cognitive radio include the ability of a transceiver to determine its geographic location, identify and authorize its user, encrypt or decrypt signals, sense neighboring wireless devices in operation, and adjust output power and modulation characteristics.

There are two main types of cognitive radio, full cognitive radio and spectrum-sensing cognitive radio. Full cognitive radio takes into account all parameters that a wireless node or network can be aware of. Spectrum-sensing cognitive radio is used to detect channels in the radio frequency spectrum.

### FACULTY AWARDS & ACHIEVEMENTS

| Sl.No | Faculty          | Designation | Title of the Award                       |
|-------|------------------|-------------|--|
| 1.    | Dr.A.Anbuchejian | Principal   | Teaching, Research and Publication Award |
|       |                  |             | Quality administration                   |

### FACULTY ACTIVITIES (JANUARY 2020 - MAY 2020)

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

| Sl.No                                       | Date                          | Name   | Event      | Title  | College/<br>Institution                           |
|---|-------------------------------|--|------------|--|---|
| <b>Department of Automobile Engineering</b> |                               |  |            |  |   |
| 1.  | 20.05.2020                    | Mr.S. Manikandan<br>Mr.S.Prakash                                   | Webinar    | Research Thrust areas in Composites  | Arasu Engineering College                         |
| 2.  | 16.05.2020                    | Mr.S.Manikandan  | Webinar    | Intellectual Property rights and basics of patent practice in India  | St. Peter's College of Engineering and Technology |
| 3.  | 15.05.2020<br>-<br>20.05.2020 |  | Workshop   | Engineering Graphics   | Anand Institute of Higher Technology              |
| <b>Department of Civil Engineering</b>      |                               |  |            |  |   |
| 1.  | 11.05.2020<br>-<br>12.05.2020 | Mrs.N Silpa<br>Mrs.R.S Gandhimathi                                 | Conference | An experimental study on replacement of fine aggregate with copper slag and foundry sand in M20 grade concrete | Sona College of Technology                        |
| 2.  | 07.03.2020<br>-<br>08.03.2020 | Dr.A.Anbuchejian<br>Mr.R.A Shivasakthivadivelan<br>Mr.S.Vigneshwar | Conference | An experimental study on the behavior of solid block masonry prism with varies mix combination                 | ICMTCEA-2020                                      |
|   |                               | Mrs.N.Silpa<br>Mrs.R.S Gandhimathi<br>Mrs.L.Balasuganya            |            | Experimental Study on light weight bricks using rice husk ash and saw dust                                     |   |

|  |                               |   |                        |   |  |
|--|-------------------------------|---|------------------------|---|--|
|  |                               | Mrs.G.Priyanka<br>Mr.R.A.Shivasakthivadivelan   |                        | Experimental study on replacement of fine aggregate and coarse aggregate using fly ash and chebulic myrobalan |  |
|  |                               | Mrs.P.Selvapriya,<br>Mr.R.A.Shivasakthivadivelan  |                        | Experimental study on activated high volume fly ash concrete  |  |
| 3.   | 04.05.2020<br>-<br>10.05.2020 | Mrs.R.S.Gandhimathi<br>Mrs.S.Shanmugapriya<br>Mrs.T.Divya<br>Mrs.L.Balasuganya<br>Mrs.N.Silpa | One week<br>online FDP | Effective and Instructive Research  | Sona College of Technology                     |
| 4.   | 12.05.2020<br>-<br>16-05.2020 | Mrs. R.S. Gandhimathi   | Five days<br>FDP       | Advancements In Concrete Technology   | Kongu Engineering College                      |
| 5.   | 13.05.2020<br>-<br>20.05.2020 | Dr. A. Anbuchejian<br>Mr.R.A.Shivasakthivadivela<br>n<br>Mrs .J. Selvi                        | One week<br>FDP        | Insights Into Quality Research And Innovation   | Vivekananda College of Engineering for Women   |
| <b>Department of Computer Science Engineering</b>                |                               |   |                        |   |  |
| 1.   | 27.05.2020<br>-<br>29.05.2020 | Mr.T.P.Udhayasankar   | FDP                    | IOT with artificial intelligence  | Sir CR Reddy College of Engineering            |
| 2.   | 06.05.2020<br>-<br>12.05.2020 |   |                        | Digital Marketing (Online Live FDP)   | ICT Academy                                    |
| 3.   | 04.05.2020<br>-<br>09.05 2020 |   |                        | Moodle learning management system(online)   | Tagore Institute of Engineering and Technology |
| <b>Department of Electronics &amp; Communication Engineering</b> |                               |   |                        |   |  |
| 1.   | 04.05.2020<br>-<br>10.05.2020 | Mr.M.M.Arunprasath<br>Mr.S.Karthick<br>Mr.R.ArulArumugam                                      | FDP                    | Effective and instructive research  | Sona College of Technology                     |
| 2.   | 09.05.2020<br>&<br>10.05.2020 | Mr.M.M.Arunprasath  | FDP                    | Challenges and innovation in renewable energy technologies by 2020  | Tagore Institute of Engineering & Technology   |
| 3.   | 11.05.2020<br>-               | Mrs.J.Jothilakshmi  | FDP                    | Improving your research visibility-   | Vellalar College of Engineering                |

|   |                               |  |                           |  |  |
|---|-------------------------------|--|---------------------------|--|--|
|   | 13.05.2020                    |  |                           | research impact and metrics  | and Technology                                 |
| 4.  | 11.05.2020<br>-<br>15.05.2020 | Mr.R.ArulArumugam  | Faculty Awareness Program | NAAC received accreditation framework 2020   | JSPM Narhe technical campus                    |
| 5.  | 13.5.2020                     | Mr.B.Ramesh  | FDP                       | Faculty program on NBA   | Bharativedyapeeth College of Engineering       |
| 6.  | 15.05.2020<br>-<br>17.05.2020 | Mr.M.M.Arunprasath   | FDP                       | Recent technology 2020   | SRM Institute of Science and Technology        |
| 7.  | 24.6.2021<br>-<br>28.06.2021  | Mr.S.Karthick  | FDP                       | Recent trends in Wireless Communication and 5G Technology  | Narasus Sarathy Institute of Technology        |
| 8.  | 27.06.2020                    | Mrs.J.Jothilakshmi   | Leadership talk           |  | MHRD Innovation Cell                           |
| <b>Department of Electrical &amp; Electronics Engineering</b> |                               |  |                           |  |  |
| 1.  | 27.04.2020<br>-<br>01.05.2020 | Mr.R.Venkatesh   | FDP                       | Technological Advancement In Power System Control Power Controllers Drives &E-Vehicles Tappad 2020 | Dr.N.G.P.Institute of Technology               |
| 2.  | 10.01.2020                    | Mr.L.Gnanaprakash  | Workshop                  | NPTEL Workshop - IIT Madras  | M.Kumarasamy College of Engineering            |
| 3.  | 07.05.2020<br>-<br>13.05.2020 |  | Seminar                   | Exploring Outcome Based Education And NBA Process  | Knowledge Institute of Technology              |
| 4.  | 11.05.2020<br>-<br>16.05.2020 | Mrs.T.Muthamil<br>Mrs.M.Elamathi<br>Mr.S.Gobalakrishnan<br>Mrs.G.Ramya                 | International FDP         | Research Challenges And Innovations In Renewable Energy Systems                                    | Aarupadai Veedu Institute of Technology        |
| 5.  | 11.05.2020<br>-<br>15.05.2020 | Mr.R.Venkatesh   | Awareness Programme       | NAAC Revised Accreditation Framework 2020  | JSPM Narhe Technical Campus                    |
| 6.  | 16.05.2020                    | Mrs.P.Ganga<br>Mrs.M.Prabha<br>Mrs.S.Senthilkumar<br>Mrs.T.Muthamil<br>Mrs.R.Venkatesh | FDP                       | An Online Faculty Development Programme on RF System Design Research Perspective                   | Tagore Institute of Engineering and Technology |
| 7.  | 18.05.2020<br>-<br>22.05.2020 | Mrs.T.Muthamil   | FDP                       | 8051 and Its Applications  | NITTTR, Chandigarh                             |
| 8.  | 08.06.2020                    |  |                           | Programming using  |  |

|   |                               |   |           |   |   |
|---|-------------------------------|---|-----------|---|---|
|   | -<br>12.06.2020               |   |           | MATLAB  |   |
| 9.  | 16.05.2020                    |   | AICTE FDP | Outcome Based Curriculum Design   |   |
| 10.   | 23.06.2020<br>-<br>25.06.2020 | Mrs.T.Muthamil<br>Mr.R.Venkatesh<br>Mr.S.Senthilkumar | FDP       | Applications Of Power Electronics For Renewable Energy And Power Systems        | Rajalakshmi Engineering College                   |
| 11.   | 14.06.2021<br>-<br>26.06.2021 | Mrs.L.Gnanaprakash                                    | FDP       | National Faculty Development Programme In Entrepreneurship                      | Vivekanandha College of Engineering for Women     |
| 12.   | 23.06.2020<br>-<br>25.06.2020 | Mrs.M.Prabha  | FDP       | Applications Of Power Electronics For Renewable Energy And Power Systems        | Rajalakshmi Engineering College                   |
| <b>Department of Mechanical Engineering</b> |                               |   |           |   |   |
| 1.  | 16.06.2020<br>-<br>20.06.2020 | Mr.M.Ranjithkumar                                     | FDP       | Advanced & Research Opportunities In Internal Combustion Engines                | Jyothishmathi Institute of Technology and Science |
| 2.  | 18.05.2020<br>-<br>22.05.2020 |   |           | Modelling and Optimization Techniques for Materials and Manufacturing Processes | Lakireddy Bali Reddy College of Engineering       |
| 3.  | 09.05.2020<br>-<br>10.05.2020 | Mr.M.Ranjithkumar<br>Mr.S.Kannan                      | FDP       | Challenges and Innovation in Renewable Energy Technologies by 2020              | Tagore Institute of Engineering and Technology    |
| 4.  | 15.06.2020<br>-<br>19.06.2020 | Mr.M.Ranjithkumar<br>Mr.P.Sakthivel                   | FDP       | Manufacturing, Machining and Testing of Composites                              | Sri Sai Ram Institute of Technology               |
| 5.  | 15.05.2020<br>-<br>16.05.2020 | Mr.M.Ranjithkumar<br>Mr.M.Govindaraj                  | Workshop  | Additive Manufacturing  | S.A. Engineering college                          |
| 6.  | 07.05.2020                    | Mr.M.Govindaraj                                       | Workshop  | Research Scopes in Mechanical Science   | Chennai Institute of Technology                   |
| 7.  | 13.05.2020<br>-<br>15.05.2020 |   |           | Future of Entrepreneurship and Employment Opportunities                         | Nehru Institute of Technology                     |

|   |                               |                 |                  |   |  |
|---|-------------------------------|-----------------|------------------|---|--|
| 8.  | 18.05.2020<br>-<br>22.05.2020 | Mr.V.Moorthi    | FDP              | Modelling and Optimization Techniques for Materials and Manufacturing Processes     | Lakireddy Bali Reddy College of Engineering    |
| 9.  | 07.06.2020<br>-<br>25.06.2020 |                 | Add on Programme | ANSYS Workbench & CFD Analysis  | Santhiram Engineering College                  |
| 10.   | 19.06.2020<br>-<br>23.06.2020 |                 | FDP              | Advanced In Biotechnology and Chemical Engineering                                  | VEL TECH                                       |
| 11.   | 21.05.2020<br>-<br>25.05.2020 |                 |                  | National Level Faculty Development Programme on Advanced Engineering Materials      | Kalasalingam Academy of Research and Education |
| 12.   | 15.06.2020<br>-<br>19.06.2020 |                 |                  | Explore Electrical Engineering In Industrial Application                            | Manakula Vinayagar Institute of Technology     |
| 13.   | 29.06.2020<br>-<br>02.06.2020 |                 |                  | Recent Innovations and Futuristic Scope for Research in Internal Combustion Engines | St. Joseph's College of Engineering            |
| 14.   | 20.05.2020<br>-<br>24.05.2020 |                 |                  | Materials for Thermal and Renewable Energy Research                                 | Sai Ram Institute of Technology                |
| 15.   | 05.06.2020<br>-<br>09.06.2020 |                 |                  | CFD and Engineering Simulation  | Sai Ram Engineering College                    |
| <b>Department of Management Studies</b>     |                               |                 |                  |   |  |
| 1.  | 06.05.2020<br>-<br>12.05.2020 | Dr.S.Subhashini | FDP              | Digital Marketing   | ICT Academy                                    |
| 2.  | 07.05.2020<br>-<br>13.05.2020 |                 | Seminar          | Outcome Based Education   | Knowledge Institute of Technology              |
| <b>Department of Science and Humanities</b> |                               |                 |                  |   |  |
| 1.  | 29.06.2020                    | Mr.S.Rajkumar   | E-Quiz programme | E-quiz on alchemist skill   | KSR Institute of Engineering and Technology    |

**JOURNAL PUBLICATIONS (JANUARY 2020 - JUNE 2020)**

| Sl.No   | Name   | Title of the Paper  | Name of the Journal  |
|---|--|---|--|
| <b>Department of Civil Engineering</b>                      |  |   |  |
| 1.  | Mrs.R.S.Gandhimathi<br>Mrs.N.Silpa<br>Mrs.L.Balasuganya  | Experimental study on lightweight bricks using rice husk and sawdust  | International Journal of Current Science and Engineering                 |
| 2.  | Dr.A.Anbuhezian<br>Mr.R.A.Shivasakthivadivel<br>an Mr.S.Vigneshwar   | An experimental study on the behavior of solid block masonry prism with varies mix combination  |  |
| 3.  | Dr.A.Anbuhezian<br>Mr.S.Sathish kumar<br>Mrs.S.Shanmugapriya   | Comparative study of steel slag with coarse and fine aggregate and testing its binding properties with bitumen  |  |
| <b>Department of Electrical and Electronics Engineering</b> |  |   |  |
| 1.  | Dr.R.Venkatesh<br>Mrs.P.Ganga  | Renewable Energy Management systems On-Grid & Off-Grid Wind/PV and Battery Hybrid Systems   | Parishodh Journals   |
| <b>Department of Mechanical Engineering</b>                 |  |   |  |
| 1.  | Mr.M.Abdul Rahaman<br>Mr.R.Girimurugan<br>Mr.M.Vairavel<br>Mr.S. Karthi<br>Mr.K.Karthikeyan<br>Mr.G.Tharma Prakash | Effect of Eggshell Particles Addition on Mechanical Properties of Jute Fiber Reinforced Epoxy Resin Matrix Bio-Composites – An Experimental Study   | Journal of Critical Reviews  |
| 2.  | Mr.N.Senniagiri,<br>Mr.R.Girimurugan,<br>Mr.M.Vairavel,<br>Mr.C.Boopathiraja<br>Mr.P.Dineshkumar                   | Exploring The Mechanical Properties Of The Poly jet Printed Vero white Specimens  |  |
| 3.  | Mr.M.Vairavel<br>Mr.R.Pughazhenth<br>Mr.R.Girimurugan<br>Mr.S.Vinothkumar<br>Mr.N.Poornachandiran                  | Effects of Wear Characterization analysis of The Friction Stir Welded joints In Aluminum Alloy Al3116-Cu Anda384 - Cu   | Journal of physical and chemical data reference                          |
| 4.  | Mr.M.Vairavel  | Structural and Thermal Research of Steam Turbine Blades by Finite Element Method<br><br>Experimental Impact on Mechanical Characteristics of Banana Fiber Reinforced, Groundnut Shell Powder Filled Epoxy Resin Matrix Bio Composites | International Journal of Innovative Technology and Exploring Engineering |
| 5.  | Mr.S.Punithan<br>Mr.A Rajeshkumar<br>Mr.J.Boopathi<br>Mr.M. Ranjithkumar   | Thermal analysis coated diesel engine piston for various coating ansys thickness  | General of Information and Computational Science                         |



|    |   |  |  |
|----|---|--|--|
| 6. | Mr.M.Ranjith Kumar<br>Mr.M.Govindaraj<br>Mr.P.Sakthivel<br>Mr.J.Boopathi                | Development of Temperature Time and Pressure Time Diagrams<br>Fordiffusion Bonding Ti “Aa7075”<br>Dissimilar Materials             | Sambodhi   |
| 7. | Dr.S.Venkatesh<br>Mr.M.P.Mohanraj<br>Mr.S.Kannan<br>Mr.S.Punithan                       | Optimization of Surface Finish on Grinding Outer Diameter  | Sambodhi   |
| 8. | Mr.S.Krishnakumar<br>Mr.T.K.Kannan<br>Mr.Sachin S Raj<br>Mr.M.Sudhagar<br>Mr.M.Vairavel | An Assessment of Mechanical Characteristics of Al 6061 Reinforced with SiC and Bagasse Fly Ash Hybrid MMC                          | International Journal of Innovative Technology and Exploring Engineering |
| 9. | Mr.Sachin S Raj<br>Mr.T.K.Kannan<br>Mr.S.Krishnakumar<br>Mr.M.Sudhagar<br>Mr.M.Vairavel | Mechanical Characteristics and Corrosion Characteristics of Fly Ash Particulates of Bagasse Reinforced Al 6061 Composite Materials | International Journal of Recent Technology and Engineering               |

**MEMORANDUM OF UNDERSTANDING SIGNED ( JUNE 2019 - DECEMBER 2019)**

| Sl.No | Company Name               | Date of Signing MOU | Duration  |
|-------|----------------------------|---------------------|-----------|
| 1.    | Green Built Environment    | 09.05.2020          | 5 Years   |
| 2.    | Sona Yukti Private Limited | 04.03.2020          | Life Time |
| 3.    | Max CADD                   | 20.01.2020          | 3 Years   |

**BOOK /CHAPTER PUBLICATION BY FACULTY MEMBERS (JAN – JUNE 2020)**

**DEPARTMENT OF CIVIL ENGINEERING**

| Sl.No | Name                                    | Title of the book /Chapter                     | ISBN No           | Publication           |
|-------|---|--|-------------------|-----------------------|
| 1.    | Dr.A.Anbuchejian<br>Mrs.R.S.Gandhimathi | A Text Book on Strength of materials           | 978-93-87865-24-2 | Forschung Publication |
| 2.    | Mrs.R.S.Gandhimathi<br>Dr.A.Anbuchejian | A Text Book on Structural analysis             | 978-93-87865-23-5 |                       |
| 3.    | Dr.A.Anbuchejian<br>Mrs.L.Balasuganya   | A Text Book on Soil mechanics                  | 978-93-87865-21-1 |                       |
| 4.    | Mr.S.Vigneshwar<br>Mrs.R.S.Gandhimathi  | A Text Book on Estimate and quantity surveying | 978-93-87865-22-8 |                       |

|    |                                   |   |                   |                     |
|----|-----------------------------------|---|-------------------|---------------------|
| 5. | Dr.A.Anbuchejian<br>Dr.M.Vairavel | Hybrid fiber reinforced composites and process techniques | 978-93-90082-38-4 | Shanlax Publication |
|----|-----------------------------------|---|-------------------|---------------------|

**LIST OF PATENTS PUBLISHED BY FACULTY MEMBERS (JANUARY 2020 – JUNE 2020)**

| Sl.No | Name of the patenting teacher | Name of the Patent   | Ref.No.      | Archived in Repository                   |
|-------|-------------------------------|--|--------------|--|
| 1.    | Dr.A.Anbuchejian              | Method for Rush forward Current Prediction using Smart Conductors                                    | 202041002580 | Issue No:05/2020,Part 1, Page No:6058    |
| 2.    |                               | Method for Improve the Structural Efficiency of Steel Truss  | 202041002484 | Issue No:05/2020 , Part 1, Page No:6049  |
| 3.    |                               | Method for Energy Recovery System using Bicycle Fly Wheel  | 202041002381 | Issue No:05/2020 , Part 1, Page No:6046  |
| 4.    |                               | Reversible Cut Off Connectors for use in the Combined Construction                                   | 202041005108 | Issue No:07/2020 , Part 1, Page No:8598  |
| 5.    |                               | Segmentation of Surface Cracks based on a fully Convolutional Neural Network and Gated Scale Pooling | 202041008926 | Issue No:10/2020 , Part 1, Page No:12503 |
| 6.    |                               | Construction and Adjustment of a Vibration Machine based on a Complete Electrive Drive               | 202041009026 | Issue No:10/2020 , Part 1, Page No:12509 |

## STUDENTS ACHIEVEMENT

(SYMPOSIUM, WORKSHOP, PAPER PRESENTATION AND COMPETITION)

| S.No   | Date                          | Name   | Batch             | Event  | Title  | Institution Name                            |
|--|-------------------------------|--|-------------------|--|--|---|
| <b>Department of Automobile Engineering</b>                    |                               |  |                   |  |  |   |
| 1.   | 20.02.2020                    | Mr.M.Arunkumar<br>Mr.M.Mahendran<br>Mr.H.Aravinth  | 2016<br>-<br>2020 | Seminar  | Future Trends in Automobile  | Mahendra Institute of Technology            |
| 2.   | 25.01.2020                    | Mr.U.Yugendran   |                   |  | Trends in AVG and Fire Fighting Vehicle  | Annapoorana Engineering College             |
|  |                               | Mr.P.Vijay<br>Mr.P.Prakash   |                   |  |  |   |
| <b>Department of Civil Engineering</b>                         |                               |  |                   |  |  |   |
| 1.   | 24.01.2020                    | Mr.A.Pravin kumar  | 2018<br>-<br>2022 | Seminar  | Retrofitting and rehabilitation of existing structures using modern technologies | Knowledge institute of technology           |
| 2.   | 30.01.2020                    | Ms.R.Nithya<br>Ms.S.Bharathi<br>Mr.K.Kansiram<br>Mr.A.Pravin kumar                                 |                   |  | Novelty in urban wa Water managemer strategies                                   | Mahendra Engineering college                |
| 3.   | 28.02.2020                    | Ms.R.Nithya<br>Ms.A.Bharathi<br>Ms.V.Reena<br>Mr.R.Muthuraman                                      |                   | Hands on training - Application of drone advance surveying | Sona college of technology   |   |
| 4.   | 26.04.2020                    | Mr.B.ArmStrong<br>Ms.R.Evanjalini<br>Mr.P.GoKul<br>Mr.P.MichelRaj<br>Mr.T.SasiKala<br>Ms.S.Sumitra |                   | Workshop   | E-Poster Competition on Patent & Design, Online Quiz :IPR                        | VIMS Hospital                               |
| <b>Department of Electronics and Communication Engineering</b> |                               |  |                   |  |  |   |
| 1.   | 07.02.2020<br>-<br>09.02.2020 | Ms.Shaik Shamsad   | 2017<br>-<br>2021 | Symposium  | Machine learning a Artificial Intelligenc  | NIT ,Trichy                                 |
| 2.   | 08.06.2020                    | Ms.E.Soundarya<br>Ms.E.Soundarya   | 2018<br>-<br>2022 | SDP  | Aptitude Shortcuts and Speed Maths   | St.Joseph's College of Engineering, Chennai |

|   |                              |   |                   |                   |  |   |
|---|------------------------------|---|-------------------|-------------------|--|---|
| 3.  | 09.06.2020                   |   |                   |                   | Self Development   |   |
| 4.  | 10.06.2020                   |   |                   | Webinar           | Electric Vehicle Charging                                    |   |
| 5.  | 15.6.2020<br>-<br>17.06.2020 | Ms.M.Saranya  | 2017<br>-<br>2021 | Work shop         | Campus to corpora  | VSM College of Engineering                |
| <b>DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING</b> |                              |   |                   |                   |  |   |
| 1.  | 26.06.2020                   | Mr.E.Murugan  | 2018<br>-<br>2022 | Webinar           | Electronic Design in theory Vs Electronic Design in Industry | SVS College of Engineering                |
| 2.  | 21.06.2020                   | Mr.E.Murugan<br>Mr.K.Vasanth<br>Mr.N.Ajay<br>Ms.E.Prabhavathi<br>Mr.Nandhakumar |                   | Short Term Course | Learn to design your own solar home system                   | Energy Swaraj Foundation                  |
| 3.  | 08.06.2020                   | Mr.E.Murugan  |                   | Webinar           | Introduction to IPR & Importance of Incubation Centre        | Mahaveer Institute Science and Technology |
| <b>Department of Mechanical Engineering</b>                 |                              |   |                   |                   |  |   |
| 1.  | 29.12.2020                   | Mr.T.Saran  | 2019<br>-<br>2023 | Course            | Principles of Design Thinking                                | Autodesk design Academy                   |
| 2.  |                              |   |                   | Training          | Getting Started with Robotic Process Automation              | Automation Anywhere                       |
| 3.  |                              |   |                   |                   | Introducing Robotic Process Automation                       |   |

### VALUE ADDED COURSES

| S.No | Name of the Course           | Department | Duration   |            | No of students benefitted |
|------|------------------------------|------------|------------|------------|---------------------------|
| 1.   | Personality development      | Automobile | 20.01.2020 | 24.01.2020 | 106                       |
| 2.   | Placement Training           | CSE        | 9.03.2020  | 13.03.2020 | 102                       |
| 3.   | Soft Skill Training          | EEE        | 09.02.2020 | 13.02.2020 | 112                       |
| 4.   | Campus to Corporate Training | Mechanical | 10.01.2020 | 14.01.2020 | 116                       |

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