Annual Report 2019-20

"Education is the most powerful weapon which you can use to change the world" – Nelson Mandela

It is my pleasant duty and proud privilege to present the 11th Annual Report of the institution for the academic year 2019-20. As we continue our legacy of academic excellence in teaching, research and service-oriented outreach, we are committed to achieving excellence in technical education and producing responsible citizens and progressive leaders.

This academic year has been very fruitful year for the institution since we could witness many academic activities by the students & for the students. The Institution has also made all efforts to teach beyond the curriculum to provide additional inputs to enhance the knowledge of students. Our efforts to offer training in soft skills & entrepreneurship is well appreciated. We are proud of our students for their exemplary behavior, respective and participative attitude & eagerness to know new technological developments & adoptability to the changes. Proactive management & qualified, experienced and dedicated faculty are the other advantages of this institution which have made this organization as one of the most sought after in this state.

About Institute:

Our institute offers graduate courses in

1. Civil Engg, Computer Science & Engg, Electronics & Communication Engg.- with an intake of 120
2. Information Science & Engg- with an intake of 60
3. Mechanical Engg-with an intake of 180 students.
   Post-graduation in Business administration- with an intake of 120
4. Institution is recognized as a Research Centre of VTU in the Dept. of Mechanical Engg, Electronics and Communication Engg, computer science & engg, Engg. Physics, Engg. Chemistry, Engg. Mathematics and Business Administration.

Infrastructural Development in Institution:

Laboratories of all departments have been modernized by equipping them with state of art equipment. Strength of Wi-Fi facility has been enhanced to 400 Mbps. Central library has been equipped with 83 Journals and 1120 volumes have been added in this year and also. E-resource from VTU Library consortium is made available which is worth of 18 lakhs in this academic year along with 8600+ international journals and 13588 e books.

AIET is recognized as i -OS Developer University Program from Apple developer program support. GNU/Linux Floss, Envision Lab, Invention & WE Lab, MEMS Lab, Basic Science lab, Alvas Centre for Advanced Research are established in AIET to train the staff and students of the institution. Robotics lab was also established in the institution with collaboration of Indian Institute of Technology Mumbai. The Institution has signed MOUs and Academic collaboration with 38 organizations mentioned few like 7 European Universities, Kumomoto University, ISRO, Entrepreneurship Development Institute of India, Ahmedabad, Defence Institute of Advanced Technology Pune, New York State University USA, Oscki Labs, Bangalore, Indian institute of Science, HAL, BEL, BEML etc

The Department of Civil Engineering organized a 3 day workshop and training programme on visual arts which was inaugurated by Sri D B Mehtha Ex IRS, CMD Allegro group for the students of Diploma in Architecture. The Department also organized a 3 day workshop and training programme on model making was conducted by Ar. Sunil Kumar, RNS School of Architecture, Bangalore for the students organised Department of Civil Engineering.

Dept. of Civil Engg. conducted a 5 days Certification course on 'Esurvey CADD' for 4th year and 3rd year students. 5 days Certification Course on sketch up for 4th sem students. The tech club of the Department organized Technical competitions for the students. The Department of Civil Engineering also organized a five day training program for non-teaching staff about Maintenance of Labs. Talk on code of Conduct and Professional ethics for Students was also conducted. The students of 6th semester attended a 6 days Survey Camp organized by the department in Mijar and Yedapadavu.

Dept. of Computer Science and Engineering conducted 2 days Workshop on Applications of Python Programming in Data Analytics and Machine Learning-Research Perspective by Dr. S. Mohideen Badhusha for faculties from 4/7/2019 to 5/7/2019, Workshop on Blockchain Technologies in Association with EMURGO Academics was conducted for faculties, 2 days Workshop on Virtual Lab Awareness by Ms. Swathi Shetty, Ms.Shresta, Ms. Anusha and Mr. Rohith Kushwaha ,NITK,SURATHKAL was conducted for faculties on 8/1/2020 to 9/1/2020, 7days workshop on Applications of Python programming in Data analytics and Machine Learning" by Dr. S. Mohideen Badhusha was conducted from 22/1/2020 to 30/1/2020, 4days Online workshop on How to develop Pythonic coding rather than Python coding – Logic Perspective BY Dr. S. Mohideen Badhusha/Professor,CSE was conducted for faculties from 21/7/2020 to 24/7/2020.

2 days Faculty Development Programme on Microcontroller and Embedded Systems by Dr. Mohan Kumar J, School of Information Sciences, Manipal Academy of Higher Education was conducted for faculties from 24/1/2020 to 25/1/2020 .

Online Pre-Placement training was conducted for final year students from 18/7/2019 to 18/8/2019. Overall 8 technical talks was conducted by the department. Forum activities such as Mockathon was conducted on 11/9/2019,Linux Awareness course for 1st year students was conducted from 12/9/2019 to 13/9/2019.

An Inter-College Branch Event named **Technofia** was conducted from 10/3/2020 to 11/3/2020.a 2 days Kaliyona Computer Rural Education Camp was conducted for Kannada medium students at Jaanuvarukatte from 22/10/2019 to 23/10/2019.

Department of Electronics and Communication Engineering and Envision Lab organized a workshop on "PCB Designing" for interested students from different semesters of Electronics and communication engineering from 4th to 5th October

2019. In the course, students were trained using the Ki-Cad software. During the workshop, students learned to design their own circuit. Best designs were selected and the opportunity was given to a few of the students to etch their circuits.

An international conference on Laser Deposition, Nanostructure, Hetero structure and 2D layers (iCOLD), was organized by departments of Electronics & Communication and Mechanical Engineering of Alva's Institute of Engineering and Technology, in association with IIT, Madras, supported by Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India, and Laser Science Service Pvt. Ltd. The program was inaugurated by Dr. Karanam Umamaheshwar Rao Director, NITK. Conference witnessed more than 70 research papers being presented, 23 guest talks, 3 discussions and 4 main speeches from prominent researchers and personalities hailing from CNRS UMR, France, Kumamoto institution- Japan, IIT Madras, IIT Delhi, IIT Hyderabad IISR-Pune, CUSAT- Cochin, IISR- Thiruvananthapuram, DIAT- Pune, NIT CALICUT, NITK-Surathkal.

Industry Visit

- The 2nd year students of Electronics and Communication Engineering visited ACE Components & Electronics PVT LTD Mysore on 28/2/2020. During this industry visit the students are exposed to the fabrication of electronic components.

- The students of Electronics and Communication Engineering visited TVS Motor Company, Mysore on 29/2/2020. TVS Motor Company is the third-largest two-wheeler manufacturer in India and one of the top ten in the world. Students were given a glimpse of the real workstations, plants, machines and systems. They Understood the end-to-end process at all levels in a manufacturing unit and the company policies in terms of production, quality, and service management.

- The students of Electronics and Communication Engineering visited Kaynes Technology Pvt Ltd Mysore on 29/2/2020. During the visit, students were given insight about

- 8 stage process of manufacturing the multilayer motherboard PCB's with computing systems.

- Exposure to schematic design, place and route, machine as well as manual soldering processes and various tests performed during the fabrication of PCB's.

The Department of Electronics and Communication Engineering also conducted 6 Technical Talks and 5 Webinars on current edge technologies so that students can update their knowledge to the industry requirements.

Department of Information Science & Engineering organized a two days workshop on "**Intro to DevOps and Data Engineering in Bigdata**" and a Five days Certification program on "**Nanotechnology**"". The department also organized an intercollegiate level hackathon "**Tech Crunch 2019**" in association with ISTE New Delhi, a student chapter of AIET.

Workshops on "**Coding skills**" and "**HTML, PHP & Database**" for 2nd and 3rd year students and a workshop on "**Hardware and Networking**" for non-teaching staff were also conducted by the department. "**Alva's Appathon 2K19**"- An App Development event was conducted for the students of AIET.

The Department also organised Technical Talks on "**Data Analytics using R**", "**Predictive Analysis for IOT**" and "**Microsoft Azure-Cloud Solutions**", by the eminent resource persons from industries and academics. A one-week Faculty Development program on "**Nanotechnology**" was organized during the first week of July, 2020. A webinar on "**RPA and It's Applications**" is also conducted for the benefit of students and faculty members.

Pre-placement training and boot camp was conducted for all the **Final Year** students to make them employable and preparing them for future life. Aptitude Training, Soft skills, Resume writing, Personality development and public speaking were the topics covered during this event.

Dept of Mechanical Engineering organized a CNC Machine training for final year students in their 7th semester and for local ITI and Polytechnic students conducted in the month of August 2019. As a result of this students have got more knowledge about CNC machine and its operation.

Seminars/ Workshops for the students & faculty member of any institutions are very much essential for overall development & impart quality education. In this regard Department of mechanical engineering conducted several technical talks for students and faculties, namely Quality tools and Six Sigma, 3D Printing Technology, Research Exposure on Hybrid Polymer Composites, Application of Materials in manufacturing industry, Explosives and their military and non-military application, Corporate expectation from engineering graduates and Role of engineers in agricultural mechanization, with a result of these technical talks students and faculties have benefitted lot from technical talks.

Department have conducted Pre placement training, aptitude trainings for final year students, which was helped lot to get selected in placement drives. Also students and faculties of mechanical engineering department have presented research articles more than 20 papers in international conference. Many faculties have published their research articles in peer reviewed journals.

As a part of Industrial visit, 2nd year, 3rd year students of department of mechanical Engineering have visited to "Toyota Kirloskar Motors Ltd" Bangalore, "HARITA FEHRER" Mysore, "TVS MOTOR COMPANY", Mysore and "Lamina Foundries" Nitte. As a result of this students had the practical knowledge.

Department of Mechanical Engineering and Department of Electronics and communication Engineering had organized a international conference on iCOLD-2019 in the month of November 2019.

MBA department activity rooster was kicked started by the Alumni Meet 2019, wherein the students from the 2016-18 batch interacted with their juniors and exchanged their experiences and other valuable lessons from their workplace. Arrangements were made for the department faculty to attend the Train the Trainer programme organised by Ernst & Young, Bengarulu titled "Post Training on International Tax and Technology Course". They were introduced to the US Legal and Tax Systems- Federal State and Local; Tax Life Cycle- Accounting , Compliance , Controversy and Planning; Overview and Computation of Income of Individuals, Partnerships and Organisations.

A half day Workshop on Professional Grooming for Corporate Life was conducted for the students by Mrs. Matharani Mathias-Corporate Trainer in Hospitality, Professional Etiquette & Social Skills. Dr. Deepak Shedde, MD-PGIMER, Chandigarh,

a leading Gynecologist spoke on the very important topic of Health issues concerning Women and the role of Men in understanding and being supportive to women in their lives.

A faculty development Training programme on Branding Agriculture Commodities and Rural Marketing for Rural Transformation conducted by the Indian Institute of Plantation Management, Bengaluru was attended by the department faculty. The programme highlighted the need for market assistance to farmers to help them be competitive in the market.

A 10 day rigorous Pre- Placement Training Program was conducted for the MBA final semester students from 13-22 August, 2019. Among other training modules, the students were equipped with Listening, Communication, Body Language, Interpersonal and Intra-Personal and other Group dynamic skills. Many experts of their respective fields like CA Nithin Shetty, Mr. Akshit Shetty (Octaplus Medicare Solutions Pvt. Ltd.), Mr. Ashok D'Souza (Sr. Business Analyst, Atlantic Data Bureau Services, Mangalore) shared their entrepreneurial experiences. Technical Talks on Digital Marketing, Micro Marketing, Design Thinking, understanding Customer Psychology, Consumer Behaviour, Product Development Cycle, Developing Leadership Skills etc were also conducted.

The 2019-21 batch was inaugurated on 5 October, 2019 by Dr. Devraj K, Founder Director SDM PG Centre for Business Management and Research, Mangalore in the presence of the Managing Trustee and the college Principal. Leading into the inauguration, the first semester students had undergone a 3 day Orientation program from 30 September to 2 October, 2019. The students were addressed by the Principal in addition to the teaching faculty wrt the various options available to a MBA graduate and what it means to be an AIETian.

An Industrial Visit to Hubli-Dharwad-Belgaum was conducted for the 2nd year students.Herein the students visited the KMF Training Centre, Dharwad, Elveety Ind. Pvt. Ltd (A outsourced manufacturing plant for Parle G), Tata Motors, Belur Industrial Area, Hubli, Ashok Iron Works Plant III, Belagavi Airport, Angadi Institute of Technology Shand Management, Belgaum and Orione Hydraulics. The student also visited the Akshaya Patra Kitchen, the Centre for Entrepreneurship Development of Karnataka, Dharwad as well as the Kirloskar Pvt. Company Ltd., Hubli. All in all it was an enriching experience for the students.

A 2-day Workshop on Household Enterprising was conducted for the department students by Mrs. Harini Rao, President, Mahila Wing of District Small Industries Association, Mangalore and team. They talked about and gave hands-on sessions on trendy fabric bags making, tomato sauce, squash, pickles, exotic cakes and jewellery making.

Not lacking in terms of discharging their Corporate Social Responsibility, the department arranged for a 1 day visit by the students to Ave Maria Palliative Care Centre on New Year's Day.

The Second year students with Finance specialisation underwent and intensive 80 hour training on US Tax Laws and Practices. The training was based on curriculum designed by Ernst & Young and imparted by department faculties trained by Ernst & Young, Bengaluru.

Department of Physics of Alva's Institute of Engineering and Technology has organized an A Workshop on Research Methodology (RM-2019) in Science and Engineering during November 21-22, 2019. All the sessions were systematically arranged keeping in mind the need of the research scholars. The first day sessions were on Research Plan/Design, conducted by Prof. Shriganesh Prabhu, TIFR Mumbai and the second day session was on 'Research Problem Selection and Research Process' conducted by Dr. Prakash R Apte, COE Pune. Dr. Ramaprasad A.T was the coordinator of the workshop of the workshop. 24 participants from the various fields were the present during this workshop.

Exam Results

For the Academic year 2018-19 the overall passing percentage from all branches of AIET is as follows.

Sl. No.	Program Code	Program Name	Pass Percentage
1	CV	Civil Engineering	99.02
2	CSE	Computer Science and Engineering	100
3	ECE	Electronics and Communication Engineering	100
4	ISE	Information Science and Engineering	100

| 5 | ME | Mechanical Engineering | 97.94 |
| 6 | MBA | Master of Business Administration | 98.33 |

Placement Activities

Principal