



A.V.C. COLLEGE OF ENGINEERING

[Affiliated to Anna University, Chennai] | Approved by AICTE, New Delhi |
[Accredited by NBA] | [Re-Accredited by NAAC with 'B++' grade (2nd Cycle)]
[An ISO 9001:2015 Certified Institution]
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Institutional Distinctiveness

The Institute with its Vision and Mission strive to participate in the noble cause of nation building by offering professional education, research and training in engineering and technology especially to the rural based Students. It empowers its stakeholders (Faculty, Students, Employers, Alumni), offer increased Industry interactions through training, placement and consultancy and also creates Social, Moral, Environmental awareness by following best practices such as recycling, using renewable sources of energy, value education, community service etc. It believes that this will not only develop professional engineers having respect for the environment and nation but also will contribute to technological development both from an Indian and global perspective. The institute takes numerous initiatives to promote Intellectual/Professional Competency by Innovation and Research Eco system leading to IPR. The faculty and students are encouraged in research and development with the Institutional support. Various forums like IIC, R&D Cell, IPR Cell, ED Cell are functioning to achieve the following objectives:

- To motivate and encourage students and faculty to put in efforts to actively participate in the Eco system.
- To promote research interests among the students and faculty members with institutional support.
- To enable innovative and inter department collaborative research projects.
- To aid in fetching funds from various agencies.
- To increase Publication and Technology development.
- To increase number of IPRs owned.

Through these cells programs are conducted for fostering Creativity, Innovation and Research in the Institution.

Results of learning will be evident and fruitful only when applied for the development of society. This is the basic idea to stimulate innovation and research in the campus. Efforts are taken by HEI to identify the potential students and support them in their needs to fulfil their ambitions. This brings a competitive climate and the spirit is enjoyed by students.

The students are mentored and motivated to enrol in various NPTEL and MOOC courses. Students are encouraged to organize events in association with professional society chapters, various cells and clubs to increase the leadership qualities. Cells like IIC and EDC have conducted various technology related competitions to promote Innovation among the students. The R&D Cell forms a peer team of professors from all disciplines whose primary task is to call for research proposals from faculty/students and scrutinize those proposals. The selected proposals will be permitted to be carried out and the required funding and resources will be arranged by the Institution. Similarly the faculty pursuing Ph.D are given sufficient support to continue the research. The interested students are allowed to discuss their ideas with faculty and one or two faculty members become mentors of the group. From the final

year projects and TNSCST student project proposals, with proper faculty guidance, some turn out to be note worthy and they are appreciated as best projects. The student group is given IPR awareness and encouraged to apply for patents. Even steps have been taken to get GST exemption for research equipments and DSIRO Exemption process is on. By utilising the KAPILA scheme by MIC, Government of India, various Patent applications have been filed from the HEI. There is a continuous increase in numbers of Student Publications, Faculty Publications, and Research Grants like MODROBS, RPS, and financial Aids for various FDPs, STTPs, Seminars, and student University Ranks holders. Professional development of faculty members is supported by the Institute. They are supported to participate in FDPs, STTPs, seminars, Conferences etc. HEI being a NPTEL local chapter, faculty members and students can get various certifications through NPTEL SWAYAM program. Students are encouraged to undergo Inplant training, Internship and Industrial visit regularly to enhance their industrial exposure and get training in latest industrial practices and standards. In plant training/Internship is compulsory as per Anna university R21 regulation for all UG programs.

The joy and feeling of accomplishment is always evident during the college day celebrations. The students were awarded with endowment prizes and faculty and staff members are appreciated for NPTEL certifications and other achievements like publications, IPR filing, fetching grants and academic excellence.

The research eco system implemented in the institution has seen success. Several research equipments and other research infrastructure has been created through funding from agencies like AICTE, SERB, TNSCST through RPS, MODROBS and students project schemes respectively for a sum of rupees 73,67,500/- in the past five years. Faculty members and students of Electrical & Electronics Engineering had successfully designed and developed a pollution-free electric vehicle that is serving its purpose. Student teams participated in events like Hackathon, Mapathon etc and Solutions for the various Problems were addressed. Few teams were selected for Grand Finale of Smart India Hackathon, continuously since 2017. In the Smart India Hackathon Grand finale 2021 & 2022, participating teams got the first prize with a cash award of Rs.1 Lakh and 50,000 respectively from AICTE. The IPR initiatives have given fruitful results and the number of Published patent applications in the past year (2022-23) has increased to 11 publications.

The required resources are available in the institution. Some technical evaluation and tests for research purpose had been undertaken in nearby institutions with the collaboration maintained by the Institute. Also grants from various agencies are helpful. The faculty members and students understand this Research Eco system and continuously endeavour in pursuit of increased Intellectual capacity.
