



# Velammal College of Engineering & Technology

(Autonomous Institution - Approved by AICTE and Affiliated to Anna University, Chennai)

Velammal Nagar, Madurai-Rameswaram High Road

Viraganoor, Madurai-625 009.

## Research Policy

Velammal College of Engineering and Technology (VCET), Madurai is committed to create a supportive and innovative environment for its faculty and students, wherein research and innovation will flourish. VCET emphasizes research ethics and integrity along with the responsible conduct of research and protection of intellectual property rights. The researcher will abide by the VCET Research policy and are also responsible to adhere to the research practices prescribed by UGC and Anna University, Chennai.

### Vision

- ❑ To develop a sustainable **research culture** for the benefit of the society

### Mission

- ❖ To develop **innovative solutions** to help the society
- ❖ To **continuously engage** with stakeholders to implement such solutions
- ❖ To **establish centers of excellence** in applied and innovative research in the respective field

### 1. Academic Research

#### 1.1 Norms for Doctor of Philosophy (Ph.D.) and Master of Science (M.S.) by research.

- Admission and other requirements for carryout the research as prescribed by the Anna University, Chennai/University in which registered for Ph.D.
- Faculty should complete one year of service at VCET before enrolling for the Ph.D. under part time.
- Faculty after the award of Ph.D., shall get the supervisor recognition from the Anna University within 2 years. Number of scholars guided by the supervisor, canbe limited by VCET based on the availability of the infrastructure facility.
- External faculty shall register for their Ph.D. under the supervision of VCET faculty after getting due approval from the Principal, VCET.
- Full time PhD scholars shall assist the supervisor/department in research and development activities.

#### 1.2 Norms for Master of Engineering (M.E./M.Tech) and Bachelor of Engineering (B.E./B.Tech)

- As prescribed by the VCET (R 2021) or Anna University Regulations.



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- (ii) Candidates shall be encouraged to carry out interdisciplinary research projects as per the guidelines provided in the [VCET R-2021 regulations\(12.4\)](#)
- (iii) Candidate shall publish their research articles in reputed peer reviewed journals/conferences after obtaining formal permission from the faculty guide.
- (iv) Candidates shall be motivated to translate their research products into marketable products following [VCET Innovation and Startup Policy](#).

## 2. Plagiarism Check

- (i) All the Anna University recognized supervisors shall access to the Plagiarism check software provided by Anna University, Chennai and permit their scholars to publish it in the journals/conferences.
- (ii) All the research scholars should enclose a copy of the plagiarism check report in their thesis reports.
- (iii) Maximum of 20% similarity is allowed for Ph.D. thesis, synopsis, and M.E. thesis reports.

## 3. Publications

- (i) Faculty must present/publish two papers per year in SCI/Scopus/WoS indexed journals or conferences.
- (ii) Faculty shall file/publish one patent in every two years.
- (iii) VCET shall reward the faculty members who present/publish their research articles in the SCI/Scopus/WoS indexed journals/conferences leading to the better NIRF and other ranking frameworks.
  - a) For joint publication by faculty, 0.5 credit(in the case of two authors) and 0.3 credit(in the case of three authors)shall be awarded.
- (iv) Each department shall constitute a research board as found in Figure 1 to facilitate faculty and student publications in the reputed journals/conferences.
- (v) Research Board is responsible for ensuring quality publications and shall recommend for the award of incentives and weightage in the Faculty Performance Appraisal System.



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- (vi) Research board shall prepare and update the h-index and i-10 index of the respective department in the college in the website yearly once and ensure that respective faculty's Google scholar, Scopus and Vidwan accounts updated continuously.
- (vii) Disseminate the research incentives details in the college website then and there.

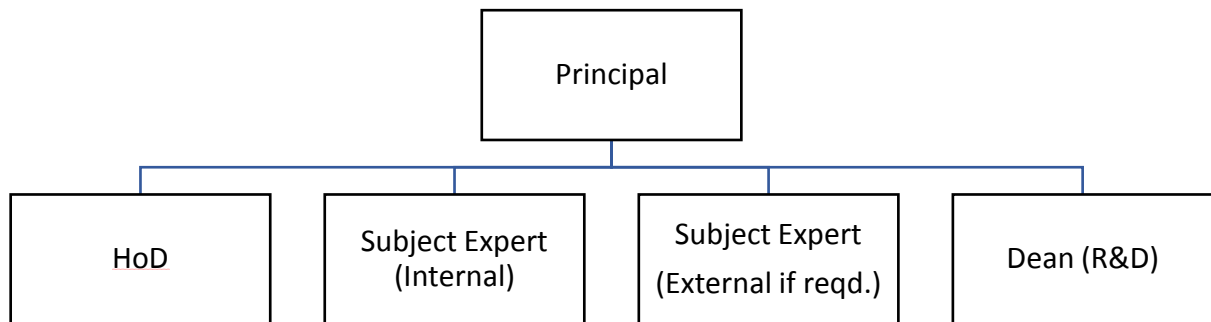


Figure 1 Research Board -Publications (Department level)

## 4. Sponsored research

- (i) Faculty must submit one research proposal per year as per the [VCET-HR Policy](#), either as Principal Investigator (PI) or Co - Principal Investigator (Co-PI).
- (ii) Every faculty shall apply for the funding support from the Government/Research organizations' call for research proposals and carry out sponsored/collaborative research.
  - For AP - Either PI or Co – PI.
  - For Asso. Prof. - As Principal Investigator.
  - For Professor - As Principal Investigator.
- (iii) Each department shall constitute a research board as found in figure 2 to facilitate faculty towards submission of winnable project proposals to the Government/Research Institutions.
- (iv) Research board shall advise the faculty on the nascent fields of research to submit project proposals.



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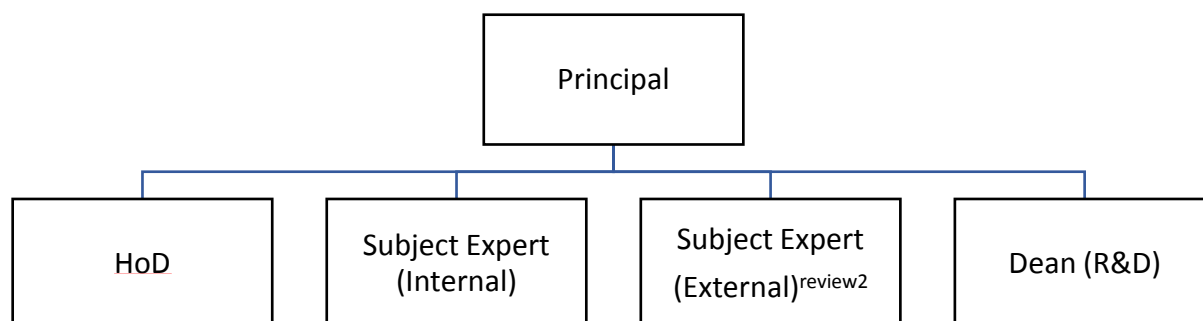


Figure 2- Research Board-Sponsored research(Department level)

- (v) PI and Co-PIs are responsible for carrying out the research as per the funding agency requirements.
- (vi) PI shall submit the project completion report as per the funding agency requirements.
- (vii) PI and Co-PIs shall publish their innovations as Patents and a final report indicating the contribution to the society should be submitted to the VCET.
- (viii) Research board shall recommend the PI and Co-PIs for incentive scheme as per the VCET-HR Policy after the successful completion of the sponsored research.

Funded Projects	1 % of the sanctioned amount	Maximum of Rs. 50,000/-	Single PI- 80% PI – 50%, Co-PI -30% Supporting Staff – 20%
Consultancy Projects	60% to the faculty 40% to the institution	Maximum of Rs. 10,000/-	
Patents (Granted)	Rs. 10,000/-	To be shared by all the faculty (VCET affiliation must be present in the patent application)	

- (ix) Research board shall be responsible for periodic updation of their R&D details in the VCET website and in NBA, NAAC, AICTE information portal.
- (x) Research board shall prepare department wise research bulletin and disseminate their research details to their stakeholders once in a year.
- (xi) Research board shall ensure that the completed funded projects are widely covered in the press, social media.



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- (xii) Research board shall encourage the PI and CoPIs to submit the completed projects for next level to the research institutions.

## 5. Research Program organization

- (i) Department shall organize one Internal Conference in every two years.
  - a) Key note speakers, Editorial board members and advisory board members of the conference shall be invited from leading organizations and institutions after the due approval from the Management
  - b) Organizers shall conduct the conference as per the IEEE/ASME standard and shall ensure that all the presentations are published as Scopus/WoS indexed proceedings.
  - c) Organizers shall submit seminar grant proposals for funding support from leading R&D organizations
- (ii) Department shall organize an exclusive project competition for the students and the best projects shall be ranked based on the Technology Readiness Level (TRL).
- (iii) Department shall arrange for special lectures/workshops, training programs and sensitization programs to promote quality research culture among faculty and students.
- (iv) Department shall ensure enthusiastic participation of their students in all the national and international level project competitions like Smart India Hackathon, MSME Idea Hackathon, Google coding contest, VCET - 3 Idiots, ISTE- Best Project awards, etc.

## 6. Collaboration and partnerships

- (i) Department shall initiate to sign Memorandum of Understanding (MoU) with leading Industries/Institutions to foster research culture among the faculty and students.
- (ii) Department shall make of use of the various research facility available with VCET like MoUs signed with Industries, AICTE Idea Lab, Center for Innovation and Business Incubator (CIPD-BI), IEDC Cell, Idea Factory for their research and consultancy work.



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- (iii) Department shall look for avenue in other departments and submit multi-disciplinary project proposals to the funding agencies.
- (iv) Department faculty shall visit industries and research institutions of national repute like CSIR, CECRI, DRDO, ISRO etc. during the vacation period and update their research aptitude.
- (v) Department research board shall keep abreast of other department research activities and ensure possible mutual citations in their research publications.
- (vi) Department shall sign MoUs with foreign universities and research institutions to enable the B.E./B.Tech. and M.E./M.Tech. students to do their internship/research projects in institutions abroad.
- (vii) Department shall always look for opportunity to submit their joint research proposals in India and other countries whenever there is a call for research proposals.
  - a) Department shall plan for one international workshop/seminar every year with experts from foreign institutions.
  - b) Department shall establish good rapport with the leading foreign universities via joint publications.
  - c) As per the funding agency guidelines, India- abroad projects shall be executed after getting due permission from the Management.