



**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**INTERNAL QUALITY ASSURANCE CELL**

## **BEST PRACTICES**

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### **I. All – India selection process**

The two practices that CUSAT believes have shaped its reputation and growth are the insistence on quality, developing the spirit of nationality and commitment to society.

The University takes pride being a Public University to admit students based on an All – India selection process. The University runs 104 number of academic programmes through the 28 Departments. Every year 1154 students are admitted to its 13 B. Tech programmes in various disciplines. One parameter that the University follows is ensuring quality and diversity in its products who later on would be the ambassadors of the institution Globally. This calls for careful election process. The University believes that the final product quality is dependent to a great extent on the quality of the input. That is why the University has been conducting a Common Admission Test with more than 75 centres spread across country and in the Middle East every year. This mode of selection not only ensures quality of the students but also make the campus vibrant with multiple cultures and makes the campus life a rich experience. Though it is a state University, we ensure good representation of students from other parts of the country and hence 40 % of the major engineering seats are kept open to students on All- India basis. Because of this considerable representation of students from different states, the campus is always vibrant with celebrations of festivals of different states of the country. This mix and amalgamation of culture is creating a nationalistic spirit in the campus as a whole. The young, energetic and academically best students who get selected ensures better academic experience and quality. This eventually strikes a chord with the recruiters. It is quite natural that every year CUSAT is a favourite destination for major recruiters in the country. On an average 55 companies recruit from the campus.



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More than 26000 applications are received for admission to about 1100 engineering seats in the campus making a demand ratio of approximately 24. This is an impressive number considering the fact that the corresponding for JEE in 2020 was 18 considering the total admissions through JEE. This clearly indicates the reputation CUSAT has among the student community in the country and the University believes that a major contributing factor is the All- India selection process.

## **II. Service to the Society**

The second practice that the University considers as very important is its commitment to the society. True to the fundamental responsibilities of a University, CUSAT has been in the forefront in taking up the challenges of the public. This is achieved by orienting appropriately the research and academic activities. In CUSAT stress is always given in taking up fundamental and applied research with a broader view that the outcomes of such activities should be beneficial to the society. For example, the National Centre for Aquatic Animal Health (NCAAH), a centre where very active development of technologies for fish farming happening in the country. Culture environment management, disease diagnosis, preventive health care are some of the services rendered. Indigenous bio-augmenters, nitrifying bioreactor technology, high density fish culture, a gut probiotic preparation enterotrophictm, etc. were developed and provided to farmers at a nominal cost.

Advanced Centre for Atmospheric Radar Research (ACARR) which pursues internationally leading research in atmospheric science in the tropical monsoon area and to develop sophisticated observational and modeling capabilities in the troposphere and stratosphere for the accurate prediction of Indian monsoon system The daily weather forecast from this centre is quite widely used by the public. Some of the major research findings help in cancer treatment, controlled drug delivery, brain disorders, betterment of solar cell efficiency and energy storage capability, development of better displays, non conventional electricity generators, chemical and biological sensors.

CUSAT promotes students entrepreneurship through the Centre for Innovation, Technology Transfer & Industrial Collaboration (CITTIC) and its Technology Business Incubator.



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CITTIC started incubating startup companies from February 2017 and 84 companies have been incubated in CITTIC since then. 25 companies have incubated at CITTIC during the year 2019-2020.

The University also believes strongly in its mandate to cultivate scientific temper in the society. The Centre for Science in Society (C-SiS) was established in 1991 exclusively to realise this goal. The Centre conducts various programmes about science throughout the year. The Centre has its own facilities like library, workshop, computer lab, science lab, toy lab, science park etc. Children can touch and feel those theories they have studied in their schools. In the One Day Attachment Programme (ODAP), the school students along with their teachers spend one full day in the Centre for training. There are provisions for training of longer duration. So far two lakh students have been trained under this Centre.

The Departments in the campus keep their lab open to public in “Open House” programme where public in general come get a feel of the kind of research works going on. The University also organises “Sastrayan”, CUSAT Open House programme in regular intervals. Under this programme all the Departments show their major research outcomes in a common exhibition conducted in the campus. This is not only attended by the common man, but also by the prospective industrialists paving a way for commercialisation of the inventions.