

Qualitative Metrics

Criterion 7-Institutional Values and Best Practices

Key Indicator - 7.3 Institutional Distinctiveness

7.3.1	Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words
-------	---

Faculty and Student Involvement in Tesla Innovation and Research Center

SITAM being a research and innovation driven institute, encourages students towards research and innovation practices. Apart from teachers and students are also encouraged and given opportunity to get involved in research efforts. Non-teaching credit courses like B.Tech Major Projects and M.Tech Dissertation are made research driven and a number of scientific papers and patents have come out of this work as an outcome. College Director, Principal and faculty are given a research problem to students on which they work for one to two semesters with the possibility of a publication, patent, design or technology. The student is required to present the body of work in an objective report and demonstration thereby enabling their critical thinking abilities in problem solving. Student are nudged to:

- ❖ Develop a research proposal
- ❖ Carry out a literature search and write a critical state-of-art review
- ❖ Select suitable research methods and integrate them within a research methodology
- ❖ Carry out the research processes
- ❖ Analyze results critically
- ❖ Write-up the body of work as a technical report

With this board objective, the activities mentioned above are under taken so that a student is able to:

- ❖ Investigate in depth a problem of scientific relevance
- ❖ Survey recent research in a chosen topic
- ❖ Acquaint with research methods applicable to the topic
- ❖ Organize and carry out an independent study
- ❖ Develop writing and presentation skills for scientific communication

In the last few semesters that we had introduced this course to our UG and PG student, the outcomes of were significant and a good number of indexed research papers, patents and new technologies evolved from this course. It was also found that student who took this course had published good scientific papers which helped them to get R&D jobs, MS and PhD admission with scholarship in prestigious universities. UG and PG students have published SCOPUS indexed publications and filed patents from these efforts.

The College has taken initiative for conducting

- ❖ Motivational/Inspirational Lectures from Reputed Industry and Organizations.
- ❖ Video Lectures from IITs, NPTEL and reputed International Universities for advanced courses to explore latest technologies.
- ❖ PROFESSIONAL SKILL DEVELOPMENT INITIATIVES : To give very focused trainers and practice in problem- solving,
- ❖ Specific training partner are chosen and students are enhanced to undergo training from these:
 - AMCAT Training partners
 - CoCubes Training partners
 - Soft Skills and Technological Skills Training for Employability.
 - Career guidance and counseling for higher education in India and abroad.

Tesla Innovation Center at SITAM

Satya Group of Educational Institutions has initiated the Tesla Innovation Center at SITAM College. SITAM took the initiative and started the start up unit in SITAM campus to produce Electric Bicycles and Autos.

Electrical battery auto and e-bikes has been invented by SITAM students.

SITAM also incubated e-vehicles organization "Agrayana Electric Technologies Pvt. Ltd. " , finally started sales of its E-bicycles. The faculty and students living close by are urged to drop by E-bicycles.

New E - bicycles Model designed by SITAM group, in the Tesla Innovation Center (TIC), started its e-vehicles sales by organization "Agrayana Electric Technologies Pvt. Ltd. " (Smt.) Dr. Botcha Jhansi Lakshmi , Former Member of Parliament and Secretary and Correspondent of Satya Group of Educational Institutions was the main Guest. The First buyer is the Honorable MLA sri. Veerabhadra Swamy garu. The E-Bikes, Auto sanitizer dispersers, Disha alert systems and so on created by SITAM Telsa Innovation Centre and Agrayana were shown @ MSME Bank Credit promotion occasion. All the visitors appreciated the initiatives and showed the interest to purchase the products.

Invention of Electrical Auto at SITAM:



New E –Bicycle Model designed by SITAM team, in our Tesla Innovation Centre (TIC):



Display of SITAM Innovations:

