



**VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE**

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Institutional Distinctiveness

The key points of VISION and MISSION of the institution are

VISION

- Timeless core values
- Academic excellence and advanced research

MISSION

- Globally competitive technocrats
- Professionally deft, intellectually adept and socially responsible
- Pragmatic perception and pro-active nature

The thrust areas focused to achieve ‘VISION’ are

- Outcome based education
- Training of faculty and students in advanced Technologies through Collaborative laboratories
- Projects on society relevant problems

To achieve the Vision and conforming to the Mission, the institution has identified the thrust areas with involvement of industry experts and exposure to real-time industrial and societal problems and establishment of labs in association with multinational companies, Govt. & Pvt Sectors thereby realizing a comprehensive outcome based model with required skill set and social consciousness to make them industry ready professionals.

INSTITUTIONAL DISTINCTIVENESS:

Out of the thrust areas mentioned above to fulfill VISION and MISSION the Institute has a distinction of establishing several Centers of Excellence (CoE) and Industry Collaborative laboratories has under Industry Institute interaction program for training, skill upgradation and placement of students to realize the objectives outcome based education. The institute has established 3 Centers of Excellence (CoE) and 20 Industry Collaborative laboratories and the details of laboratories are described below.

CENTERS OF EXCELLENCE (CoE):

1. SIEMENS CoE:-

This unique centre established in 2016 in the college, in association with APSSDC as a PPP corporation to promote skill-development & entrepreneurship in the state, is housed in a space of 23000 Sqft and other facilities worth Rs.5.50 Crores with **13** different labs namely Product Design & Validation Lab, Advanced Manufacturing Lab, NC Programming Lab, Rapid Prototyping Lab, Test & Optimization Lab, Robotics Lab, CNC Machines Lab, Lift Installation & Maintenance Lab, Electrical & Energy studies Lab, Automation Lab, Process Instrumentation Lab, Mechatronics Lab. EIE students and faculty are trained in Automation, Process Instrumentation, Electrical and Mechatronics labs. ME students and faculty are trained in Product design and validation, Advanced manufacturing, Test and Optimization, CNC Machine, CNC Programming, Robotics and Rapid Prototyping Labs. About 450 students were trained in Problem Solving and Programming in Python Phase – I and Phase – II and Amazon Web Services Technical Essentials Workshop for the duration of 18-24 hrs

2. TIFAC (Technology Information, Forecasting and Assessment Council) CORE- DST:

This project is a collaborative effort of TIFAC, VRSEC and industries in the domain of Telematics. VRSEC is the First private Engineering College in the state of AP to receive this project of worth of Rs 36.33 crores which includes Rs 27 crores worth of software. It was launched **in 2009** with 14 industries. Projects were successfully completed and effective training is offered for both students and faculty using NI -Lab View.

3 CoE in COMPOSITES:

This centre is established in 2014 with DST- FIST in ME Dept to develop new materials which are economical and eco-friendly. The facility has equipment worth Rs. 60 lakhs that can be used for research, testing and consultancy.

Major outcomes are:

- 4 Research projects were completed and 3 are in progress (Rs. 90 Lakhs)
- 10+ Ph. D s were completed and 4 are in progress.
- More than 100 research articles were published in conferences and journals.
- 3 patents were published and 3 are in progress.
- Consultancy works worth of Rs. 7 lakhs were completed.
- Student projects at UG /PG level are actively carried out.

INDUSTRY COLLABORATIVE LABORATORIES:

1. CISCO NETWORKING ACADEMY:

This facility established in 2017 is contributing towards Industry recognized certifications with career oriented courses periodically on Cyber security, etc for duration of 30 to 90 hrs. Over 1100 students and 20 faculty were certified during last 3 years.

2. IBM SOFTWARE LAB FOR EMERGING TECHNOLOGIES. :

This lab established in 2016 Dept of IT to provide training on essentials of Big data with Hadoop using IBM infosphere etc and on identity management. 250 students and 50 faculty were certified in 32hr training sessions.

3. DASSAULT SYSTEMS:

This facility established in 2018 in ME dept. stands as a 3D Experience centre supported by APSSDC to offer training on a bi-layered format in technologies on CATIA, SIMULIA, DELMIA, etc followed by opting for training in the domains of Automotive, Aerospace, Defence & Ship building etc. 240 students and 14 faculty were trained and 56 students were certified for duration of 30 to 160 hrs.

4. ORACLE CORPORATION:

The Lab started in CSE in 2017 has been running Oracle licensed software for developing applications. Faculty of CSE were trained on different technologies. During last three years, 46 students were certified as Oracle Certified Associate Java SE 8 Programmer, 1Z0-808 and 26 students in Oracle Database SQL 1Z0-071 SQL Fundamentals.

5. APPLE AUTHORIZED TRAINING CENTER FOR EDUCATION (AATCE)

This facility was established in 2019 in IT Dept to provide training on developing apps related to IOS and SWIFT Programming in which faculty were trained. An Add-on Certificate Course will be offered by the trained faculty for 3rd year Students in the second phase. Two faculty were trained on Swift Language for duration of 32 hours and 34 students in Value Added Program on Swift Programming for duration of 30 hours

6. VIDEO ANALYTICS RESEARCH LAB-

It is established in CSE Dept in 2014 to provide a base for video analytics research and to improve algorithm robustness. During the last 5 years, 100 students and 15 faculty were trained. More than 7 research articles were published in reputed conferences and journals. A Two day National seminar on Space Technologies & Applications from 6th -7th November 2019 was organized by Departments of CSE, ECE & IT.

7. ANBLICKS IGNITE CENTRE

It is established in 2019 to promote collaborative research activity between Anblicks and VRSEC, and to provide internships, product development avenues and Placements to students About 20 students were placed. About 10 students were trained on Data Science and Data Integration for duration 80 hours.

Due to the above distinctiveness, the following outcomes have been achieved by Faculty and students for the AY 2019-20


Faculty Outcomes

- Total IPRs are 36 out of which 30 published and 2 are granted
- 12 Faculty were awarded with Ph. D in the college.
- Faculty with Ph.D qualification in the college are 130.
- Research papers published in the Journals and conferences are 280 (277 are in Scopus and 3 are in UGC)
- 5 faculty visited foreign countries for presenting papers in International conferences

Student Outcomes

- Placements for this AY are 943+ and above Rs 4 lakh package is 209+
- Students won prizes/Awards in National and Global Competitions are 142
- Student Internships are 824.
- Students Participated in National contests are 1038.
- Two students visited foreign countries for attending workshop.




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