



VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institute, NAAC Accredited with 'A' Grade
NBA Accredited for CE, EEE, ME, ECE, CSE, EIE, IT B.Tech Courses

Approved by AICTE, New Delhi, Affiliated to JNTUH

Recognized as "College with Potential for Excellence" by UGC

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Department of Automobile Engineering

SWOC

Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths

- A clear vision and mission along with established policies and procedures
- Our reputation for innovative, student-centered learning
- The high quality of our faculty and students and staff
- Our expertise in interdisciplinary methods of research and development
- Presence of young faculty members actively involved in research and development
- Constructive support from the college administration
- Organization of guest lectures/industrial visits
- The rich practice of assessments/technical seminars/quizzes
- Encouraged the students to participate in the extra circular activities like vehicle design/development competitions like Baja, Supra, FSAE, etc.
- Intensive advising through mentoring/counseling by senior faculty
- Focused syllabi and process core curriculum content
- High demand for admissions in the college
- Situated in city limits for approaching/residency/hostels/hotels, etc.
- Well established computer labs with latest software's
- Orientation programmes/Career Advanced Programmes conducted to students through staff in beginning of the academic year
- Faculty are promoted to visit various reputed institutions, industries and research centers to bridge the gap between academics and industry

Weaknesses

- Less number of placement in core companies, as a very few automotive industries AP/Telangana states
- Only one funded research project in the department
- Comparatively less motivated and weak students in Automobile Engineering
- Limited space for the development/expansion of the laboratories beyond the syllabi
- No critical mass of minority status students

Opportunities

- Harnessing research possibilities in automotive navigation, automotive electronics, intelligent vehicle transportation, hybrid electric vehicles they constitute important segments in the new syllabus
- The course curriculum is so designed that students can avail of jobs offered by the research and development sector of automotive industries
- Industry-institute interactions
- Memorandum of understanding with concerned industries/universities
- Expanded international studies and global issues curriculum, experience, and programs

Challenges

- To transform this relatively new department into a centre of excellence for research and learning
- To create opportunities for research / projects as joint ventures with other research institutions of national importance
- As a small campus, not nearly enough space for any growth in programs or students – Laboratories, studios, performance spaces, and so on
- Less number of engineering colleges in AP/Telangana states with Automobile Engineering Specialization for healthy competition
- Less active Southern Section in Hyderabad
- Retaining of faculty as young faculty are moving towards higher studies like Ph.D. in IITs, NITs, abroad Universities, etc.
- Low research and development activities because of less/absence of local research guidance/guidance for the eligible faculty (JNTU/OU rules are different from Anna University)

Future plans of the department.

- Introduction of new postgraduate programme with research orientation
- Upgradation of laboratories with modern and sophisticated instruments
- Organizing national/international level Conferences/Seminars/workshops/FDPs
- Funding from sponsored Government agencies for research projects
- Fund generation through industrial project consultancy and testing
- Conducting seminars through video conferencing
- To improve the pass percentage and to reach the target of 90%
- Individual faculty has to carry out at least one research or consultancy project
- All faculty with doctoral degree
- On average every faculty has to publish at least two research publications per year in reputed journals with good impact factor
- To organize a conference at International level at least once in two years
- To sign more MOUs with Industries
- To look for collaboration at international level with renowned foreign universities
- Establishment of recognized research centers
- Design and organize Industry Specific diploma/training/programmes/courses