SIDDHARTHA
ACADEMY OF HIGHER EDUCATION
An Institution **Deemed to be University**
(Under Section 3 of UGC Act, 1956)
Kanuru, Vijayawada - 520 007, AP. www.vrsiddhartha.ac.in

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Information Brochure – For admission to Ph.D. Programmes 2025-2026

SAHE/AY/2025-26   Dated: 02/04/2025

Velagapudi Ramakrishna Siddhartha Engineering College – Deemed to be University, Vijayawada, offers Ph.D. programmes across various academic disciplines. This program emphasizes both coursework and original research, encouraging interdisciplinary studies. The University also undertakes sponsored research projects, collaborating research with industries and organizations from both public and private sectors. All the departments in Velagapudi Ramakrishna School of Engineering are well equipped with research facilities and experienced faculty.

Applications are invited from eligible candidates for admission to Ph.D. Programmes under Full Time and Part Time Schemes of Velagapudi Ramakrishna Siddhartha Engineering College (Deemed to be University).

1. Admission Categories (2025-2026)

Two categories of programs:
- ❖ Full-Time Category
- ❖ Part-Time Category

1.1 Full-Time Category:

1.1.1 With Fellowship:
- ◆ Fellowship will be provided as per university norms.
- ◆ The Full-Time category candidates should work in the campus throughout their research program with or without fellowship.

1.1.2   Without Fellowship:

1.1.2.1 Sponsored Candidates:
- ◆ Candidates with an excellent academic record and sponsored by the institutions / research organizations / industries can also join the doctoral program

1.1.2.2 Self-Financed:

♦ Candidates with an excellent academic record and self-financed candidates are eligible under this category.

1.2 Part-Time Category

♦ Sponsored candidates working in institutions / research organization / industry are eligible without fellowship.

♦ They have to fulfill the norms of the university to complete the Ph.D program.

2. <u>Eligibility</u>

2.1 Ph.D. in Engineering

2.1.1   10+2+4+2 pattern of studies or equivalent in Engineering Degree / 10+2+5 year Integrated M.Tech Programme, Integrated M.S Program in Engineering.
MCA & M.Tech (CSE / IT) / M. Sc. (Maths / Computer Science) & M.Tech (CSE / IT) are also eligible for Ph.D in Computer Science and Allied Engineering.

2.1.2   Candidates with a Master's in Engineering/Technology or M.S. by Research with a minimum of 60% (CGPA of 6.5/10) aggregate marks either in their Bachelor's or Master's Program for general category (for SC/ST/OBC 55% aggregate or CGPA of 6.0/10 either in their Bachelor's or Master's Program).

2.1.3   Candidates with MCA & M.Tech (CSE / IT) / M. Sc. (Maths / Computer Science) & M.Tech (CSE / IT) with a minimum of 60% (CGPA of 6.5/10) aggregate marks either in their MCA / M.Sc. or M. Tech (for SC/ST/OBC 55% aggregate or CGPA of 6.0/10 either in their MCA / M.Sc. or M. Tech).

2.1.4   A valid SRCAT score is mandatory for both full-time and part-time admissions.

2.1.5   The candidates with valid score in Joint CSIR-UGC NET, APRCET or APSET are exempted from SRCAT (Siddhartha Research Common Admission Test).

2.2 Ph.D. in Mathematics/Physics/Chemistry/English/Social Science/Management

2.2.1   10+2+3 + 2 or equivalent in Sciences/Humanities/Management.
The candidates under the above category are admitted under part-time program and not eligible for fellowship.

2.2.2   Candidates with a minimum of 60% aggregate marks in their Bachelor's or Master's in the relevant discipline or CGPA of 6.5/10 for general category (for SC/ST/OBC 55% aggregate or CGPA of 6.0/10).

2.2.3   A valid SRCAT score is mandatory for both full-time and part-time admissions.

2.2.4 The candidates with valid score in Joint CSIR-UGC NET, APRCET or APSET are exempted from SRCAT (Siddhartha Research Common Admission Test).

3. <u>Major Research Areas</u>

- Chemistry: Green chemistry, organometallic chemistry.
- Civil Engineering: Structural engineering, Geotechnical engineering, Construction materials, transportation engineering, Water resources engineering, Environmental Engineering, Geospatial Technology.
- Computer Science and Engineering: Cyber security, network security, networks, optimization techniques, generative AI, computer vision, machine learning and deep learning applications, software reliability, cyber physical systems, cloud technologies, wearable technologies, bioinformatics, high performance computing, soft computing and related emerging areas.
- Electronics and Communication Engineering: AI-based wireless communication, 6G, high data rate WLAN, remote sensing, image processing, machine learning, deep learning.
- Electrical and Electronics Engineering: Power electronics, high voltage engineering, control systems.
- Mathematics: Bio-mathematics, differential equations, mathematical theory of control, operations research.
- Mechanical Engineering: Thermal engineering, energy engineering, polymer composites, gears, manufacturing engineering, composite materials, digital twin for industrial robotics, augmented/virtual reality for manufacturing, AI-based metamaterials design.
- Physics: Material science, solid-state physics, nanoscience, nanotechnology, condensed matter physics.

4. <u>Duration of The Programme</u>

4.1 Ph.D. programme shall be for a minimum duration of two years excluding course work, and a maximum of six years. (After completion of minimum three years' duration only, the candidate is eligible to submit the Synopsis / Thesis).

4.2 Extension beyond the above period will not be more than two years. It's applicable only for deserving candidates on the discretion of the University norms.

5. Course Work

The Credit requirement for the Ph.D. Course work is a minimum of 12 (twelve) credits and maximum of 16 (sixteen) credits. Conducting course work and evaluation pattern shall be as per University statutory guidelines.

6. Fellowships

All the Full Time Ph.D. Scholars will receive a fellowship of Rs. 35,000/- per month for a period of 3 years (can be extended to one more year with Doctoral Committee recommendations).

7. Fees Structure

One Time Registration Fee   : Rs. 10,000/-
Tuition Fee   : Rs. 20,000/- Per Semester for Full Time Scholars
      : Rs. 15,000/- Per Semester for Part Time Scholars
Thesis Evaluation Fee   : Rs 10,000/-

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8. Important Dates

- Last date to submit the online application: 03th May-2025
- Publication of shortlisted candidates: To be notified on the institute website and intimated to respective candidates.
- Written test and interview schedule: To be announced

Contact for Further Queries:
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