YEARLY STATUS REPORT - 2022-2023

Part A	
Data of the Institution	
1.Name of the Institution	Velagapudi Ramakrishna Siddhartha Engineering College
• Name of the Head of the institution	Dr A V Ratna Prasad
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	08662582333
• Alternate phone No.	08662582200
• Mobile No. (Principal)	9849599497
• Registered e-mail ID (Principal)	principal@vrsiddhartha.ac.in
• Address	Kanuru
• City/Town	Vijayawada
• State/UT	Andhra Pradesh
• Pin Code	520007
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	27/10/2006
• Type of Institution	Co-education
• Location	Rural

• Financial Status	**Self-financing**
• Name of the IQAC Co-ordinator/Director	**Dr MVS Raju**
• Phone No.	**08662582334**
• Mobile No:	**9885199560**
• IQAC e-mail ID	**iqac@vrsiddhartha.ac.in**
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.vrsiddhartha.ac.in/wp-content/uploads/2019/09/FinalAQAR2021-22_23052023.pdf
4.Was the Academic Calendar prepared for that year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.vrsiddhartha.ac.in/academic-calendar/

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 2	**A+**	**3.38**	**2021**	**24/08/2021**	**23/08/2026**
Cycle 1	**A**	**3.17**	**2013**	**25/10/2013**	**25/10/2018**

6.Date of Establishment of IQAC	**06/03/2014**

7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Velagapudi Ramakrishna Siddhartha Engineering College	Margadarshan	AICTE	13/06/2018	2500000
Velagapudi Ramakrishna Siddhartha Engineering College	SIRO - Scientific and Industrial Research Organization	DSIR, MST, GoI	01/01/2017	--
Velagapudi Ramakrishna Siddhartha Engineering College	NIRF	MoE, GoI	01/01/2018	--
Velagapudi Ramakrishna Siddhartha Engineering College	NIRF Innovation	MoE,GoI	18/08/2020	--
Velagapudi Ramakrishna Siddhartha Engineering College	ISO21000:2018	ISO: the International Organization for Standardization	21/07/2023	--

8.Provide details regarding the composition of the IQAC:

• Upload the latest notification regarding the composition of the IQAC by the HEI	View File	

9.No. of IQAC meetings held during the year	4
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?	Yes

• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	
10.Did IQAC receive funding from any funding agency to support its activities during the year?	**Yes**	
• If yes, mention the amount	**3,00,000**	
11.Significant contributions made by IQAC during the current year (maximum five bullets)		

1. Implementation of Activity Calendar in addition to Academic Calendar • Responsibilities of HEIs and their faculty in changing Educational scenario; Accreditations (NAAC, NBA, etc.) and Rankings (NIRF, ARIIA, etc.) - Documentation of several activities with evidences and outcomes. Keeping the above points in view, there is a chance of overlooking the activities or not performing them in scheduled time, effects the quality outcome. • Activities of Activity calendar: Curricular Activities, Co-curricular Activities, Teaching – Learning process, Continuous Assessment, Allotment of student's projects & review, Feedbacks – Internal / External & fallow-up actions ,PBAS, Dept. Performance, Capacity building activities – Skill development, Idea churning / Brainstorming sessions for Faculty, Staff & students, Meetings with Stakeholders, Monitoring of goals set, OBE Mechanism review, Updating NBA/ISO/NIRF/AICTE/NAAC files, Regular meetings – PAC, DAB, BOS, AC, GB etc., Data Collection & uploading to regulatory bodies – JNTU, AICTE, NAAC and Growth Analysis / Comparative studies , Website – data updating, etc…. , Audits – Internal & External, Reviews – internships, placements, Reviews -Alumni interaction, Reviews - Research publications & funding , Responsibilities of HEIs and their faculty are changing in present Educational scenario, Accreditations (NAAC & NBA) and Rankings (NIRF, ARIIA, etc.) • IQAC recommended toput all such activities, categorically, month wise in a Calendar. • Activity Calendar for all level of leadership, Principal, Deans, AO at Institute level, HODs, PCs at Department level and all faculty is suggested. • Outcome of the activity: It guides all the Stakeholders for successful & smooth functioning of Institution, thus enhances the performance of Principal, HoDs, Faculty and Institution as a whole. **2. Institutionalization of R & D Excellence award** • Modern education system does not exist without Research. Research is must for the delivery of knowledge to the students in present Higher Education. • IQAC is confident that the "R & D Excellence Award" award acknowledges and improves the research culture in the Institute. • VRSEC is already creating an environment

for research and development through Capacity Building programs to Faculty & Students, MoUs with National & International reputed Institutions, Seed Grant support, Support for attending Conferences / Workshops at National & International reputed Institutions, Support for patent filing, Incentives for publications & Sponsored Projects. • IQAC has Proposed Guidelines for three category of faculty for the selection of the Award. 3. Identification & subsequent strengthening of one major thrust area of Research in Emerging fields in every department by providing necessary infrastructural facilities & identifying competent faculty, to fulfill the "Make in India" and "Atmanirbhar Bharat" Intension: To make every department strong in a particular area of research by promoting extensive research work in that area. Implementation Strategy suggested by IQAC: ? Identifying thrust area of Research in emerging field, useful to the Society & Industry. Identifying competent faculty / recruiting them, if necessary ? Providing infrastructural facilities in phased manner in the area of research ? Collaborating with institutions & Research organizations, working in the same field. Expected outcomes: ? Research work focusing on Outcomes – Quality Publications, Patents, innovative products, grabbing Research projects & research awards. ? Finally, aspiring recognition of the department from outside world Example: Big Data and Data Analytics (IT Dept.) The proposed Research area: The structured and unstructured large scale data, in various forms (Text Data, Graphs, Images, SQL, NOSQL Data) is analyzed for making strategic decisions for different real time applications - health care, agricultural, business, surveillance, social networks, etc. 4. Revamp of "Continuous (Internal) assessment pattern" IQAC proposed revamp of existing question paper pattern, to enhance the quality of question paper following the norms of NBA. It is affective from the Academic year 2023-24 Proposed pattern: Internal Assessment - 30M Class tests -2: 10M each Sessional Examinations -2: 15M each Presentation / Seminars – 5M ***** Class tests Class tests 2Q*5 M / (3+2)M =10 M, Duration – 45min Knowledge levels not less than K2 – K5 2/3rd of best exam & 1/3rd of least. ***** Sessional Examinations Part-A: 1st is compulsory, carrying 5 / (3+2)M; Part B: Total 3Q, one Choice Question; 2Q*5 / (3+2)M=10M Duration – 75min Knowledge levels K2 - K5 Choice Question must be with same Knowledge level 2/3rd of best exam & 1/3rd of least exam. ***** Presentation / Seminars for 5M … Based on rubrics & topic beyond syllabus. 5. Streamlining – EPICS. The Projects should confine to societal problems with innovative solutions and reach targeted users IQAC felt that EPICS is an opportunity to the students to serve the community / Society and a quality project will always help the students for better career selection. Accordingly the IQAC alerted the Heads of the departments through continuous monitoring for

quality. Suggestions by IQAC for improvement: 1. Directing the students & guides to strictly follow EPICS design Process 2. Conducting brainstorming sessions on EPICS to students & faculty 3. Appointing separate EPICS Committee at department level for meticulous examination on the progress of the project at every assessment. 4. Promoting the students to reach their innovations to the targeted community. 5. Promoting the students to exhibit their Innovations on prominent platforms. 6. Selection of the best EPICS project at department level…..and appreciation to students & faculty 7. Selection of the best EPICS project out of the best projects of departments at Institute level and appreciation to students & faculty. The final outcome should reach the targeted users: • Telecast the selected best project in intended regional media channels - Every dept. at least one per year. • Telecast the selected best project among the depts. in National Channel / Channels, at least one at Institute level per year. • Technical Publications through papers / Patents • Exhibition / Presentation of EPICS - Projects on Prominent platforms – IITs / NITs / Govt. Organizations / etc. • It also helps for Perception (NIRF) of the Institution. 6. Executing Industry / Institute (IITs/NITs) collaborative joint venture projects in all the departments. Objective: to enhance the research projects In the event of difficulty in getting sponsored research grants, for Private intuitions in particular, it becomes another source of research grant from outside organizations. They can be secured through the indirect ways such as building relations through collaborative projects with Institutions of repute (IITs/NITs), it will certainly help the Departments & Institute to grow better in all dimensions. IQAC directed the departments, those who are not having, to focus seriously on Collaborative projects. Suggestions of IQAC….Ways of getting Collaborative joint venture projects Building relations with nearby NITs / IITs through………….. • Inviting experts from IITs/ NITs for training programs (summer schools, etc.), • Exchange programs for UG, PG students and faculty, • organizing the conferences, workshops and FDPs in collaboration with IITs/NITs, • Centers of Excellence in collaboration with IITs/ NITs, • Functioning MoUs, etc. Taking the above events as an opportunity to fulfill the requirement. 7. Refresher Training program on OBE (Focusing on Higher order knowledge levels, defining appropriate COs & setting higher PO attainment targets). Proposed with an intention of updating skills and knowledge to a changed standard and further refinement in OBE practice in the Institution The IT department took the charge to organize the program covering the following topics • Implementation of Outcome Based Education • Focusing on Higher order knowledge levels • Defining appropriate COs in new programs & Setting higher PO attainment targets in existing programs.

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Attention on improving Granting of Patents in proportion to publishing.	To enhance no. of Granting & Commercialization of Patents
Academic Bank of Credits – Implementation	To fulfill the requirement of NEP 2020
Impact of Academic Audit on expected outcomes, do the departments really achieving what they are expecting – A Review.	To review the process of Academic Audit and alert the departments to focus more on AA for better outcomes.
Creating & maintaining student's tempo required for subsequent years, from the 1st year	For effective involvement of students from their 2nd year in activities which are beyond routine Teaching-Learning.
Institutionalization of YouTube channel at Institute level.	Showcase the institution's achievements, share knowledge and engage with the wider community
Implementation of UTSAH (Undertaking Transformative Strategies and Actions in Higher Education) portal.	To fulfill the requirement of UGC regulations
Promotion of Inter-disciplinary Research among all departments	To address inter and multi disciplinary societal problems
Departmental R&D Reviews	To identify the lapses and promote the R&D culture effectively
NAAC reforms in Assessment and Accreditation - 2024	To be in line with reforms of NAAC

13.Was the AQAR placed before the statutory body?	**Yes**

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Academic Council	02/12/2023

14.Was the institutional data submitted to AISHE ? | **Yes**

- Year

Year	Date of Submission
2022-23	17/02/2024

15.Multidisciplinary / interdisciplinary

To foster multidisciplinary/interdisciplinary learning, students have the option to select advanced and interdisciplinary courses through the Honor and Minor curriculum framework.

Curricular Framework for Honors Program:

- Eligible students from a specific Department/Discipline can choose to enroll in the Honors Program offered by the same Department/Discipline.
- Students may register for the Honors program at the beginning of the 4th semester, provided they have achieved a CGPA of at least 8.0 without any backlogs by the end of the 2nd semester. Failure to meet this CGPA requirement results in the cancellation of the Honors Program registration, and the student continues with the regular program.
- Students can select additional and advanced courses within their degree branch to earn an honors degree in the same discipline. For instance, a Mechanical Engineering student completing advanced courses from their branch would receive a B.Tech. (Honors) in Mechanical Engineering.
- In addition to meeting all the requirements of a Regular B.Tech Program, a student must earn an additional 20 credits to qualify for the B.Tech (Honors) degree. This is in addition to the credits required for the Undergraduate Degree in the Discipline (i.e., 160 credits).
- The Honors program must be completed simultaneously with the major degree program, with a maximum of 8 credits per semester. Students cannot pursue Honors after obtaining a bachelor's degree.

Curricular Framework for Minor Program:

- a) Students wishing to explore interest areas beyond their chosen Engineering discipline can opt for additional courses in minor specialization groups offered by a department other than their parent department. For example, a Mechanical Engineering student selecting subjects from Civil Engineering would obtain a Major degree in Mechanical Engineering with a minor in Civil Engineering.b) Students can also choose industry-relevant tracks from any branch to obtain the Minor Degree. For example, a B.Tech Mechanical student can opt for industry-relevant tracks such as Data Mining, IoT, Machine Learning, etc.

- The concerned Board of Studies (BOS) will identify multiple tracks in emerging technologies and industrial relevance/demand. These may include fundamental courses in various disciplines or industry tracks like Artificial Intelligence, Machine Learning, Data Science, Robotics, Electric Vehicles, VLSI, etc.

- There is no limit to the number of programs offered under Minor. The University/Institution can introduce minor programs in emerging technologies based on departmental expertise or explore collaborations with relevant industries/agencies.

- Students may register for the Minor program at the start of the 4th semester, with a maximum of two additional courses per semester, provided they have achieved a minimum CGPA of 7.75 by the end of the 2nd semester without any backlogs. If a student fails to meet this requirement, their registration for the Minor program is canceled. To maintain active registration, a CGPA of 7.75 must be maintained in subsequent semesters without any backlogs.

- To be eligible for the B.Tech degree with Minor, a student must earn an additional 20 credits in the specified area. This is in addition to the credits required for the Undergraduate Degree in the Major Discipline (i.e., 160 credits).

- A departmental committee should be established to evaluate grades/marks from external agencies, as approved by the concerned Board of Studies. After course completion, the departmental committee should convert the obtained grades/marks to the maximum marks assigned to each course. The controller of examinations can make decisions on these conversions and assign appropriate grades.

- If a student fails to meet the CGPA requirement for the B.Tech degree with Minor at any point after registration, they will be removed from the list of students eligible for the Minor degree and will receive only the B.Tech degree. However, these

students will receive a separate grade sheet specifying the additional courses completed.

- The Minor program must be completed concurrently with the major degree program, with a maximum of 8 credits per semester. Students cannot pursue the Minor after already obtaining a bachelor's degree.

The following Humanities electives, foreign languages, and other courses are also offered

- Logic and Reasoning, English for Professionals, Personality Development, Quantitative Aptitude, Yoga, German Language Humanities Electives: Innovation, IPR & Entrepreneurship, Indian Constitution, Environmental Studies, Professional Ethics and Practice, Technology and Society

16.Academic bank of credits (ABC):

The University Grants Commission with the concurrence of Ministry of Education had notified "The University Grants Commission (Establishment and Operation of Academic Bank of Credits in Higher Education) Regulations.2021" in the Gazette of India on 28 th July, 2021. The Academic Bank of Credits (ABC) platform has been developed by the National e- Governance Division (NeGD) of Ministry of Electronics and Information Technology (MeitY) under DigiLocker framework. Academic Bank of Credits (ABC) will digitally store the academic credits earned by students from higher education institutions registered with ABC, for awarding degree/Diploma /Certificates taking into account credits earned by students.

Feature of ABC

The following features will be available for the students in the ABC application:

1. Registration for a unique ABC ID (which can be shared between Academic Institutions for any course)
2. Viewing of total credit accumulated under one window
3. Selection of multiple credits of convenience for transfer or redemption
4. Viewing of the Transfer request status
5. Reinitiating credit transfer at their conveyance.

Benefits of ABC

1. Increases the student's freedom in choosing their courses and

academics.

2. Enables the student to drop out in any year and then exchange the credits earned so far with a certificate/diploma if they are eligible.
3. They can redeem the credits and rejoin the same or any other institute in the future and continue their education.
4. The institutes cannot keep the students in the courses against their will to earn money
5. Students must provide this ABC ID to the corresponding academic institutions where they are pursuing/completed their courses, to enable the academic institutions to upload credits against the student's ABC ID on DigiLocker – National Academic Depository.

For successful implementation and to enhance the reach of the ABC programme in the V R Siddhartha Engineering College,Vijayawada, following college personnel are assigned with the following capacity.

NAME	CAPACITY	CONTACT DETAIL
Dr.T.S.R. Chowdary	Nodal Officer	abc@vrsiddhartha.ac.in
Dr. K Hemalatha	Member	
Sri M. Ramesh	Member	
Sri P Kishore	Member	
Sri P V V Murali Babu	Member	

Credit Structure: The standard credit structure for coursework in the B.Tech. Program, based on the aforementioned definition, is outlined below. Credit assignments are as follows: 1 hour of Lecture (L) per week equals 1 credit, 1 hour of Tutorial (T) per week equals 1 credit, and 1 hour of Practical (P) per week equals 0.5 credits.

Semester Course Load: The typical course load averages 20 credits per semester, with minimum and maximum limits set at 12 and 23 credits, respectively. However, the total credits at the conclusion of the 4th and 6th semesters are specified as 82 and 125, respectively.

Conditions for Promotion: To progress to the V/VII Semester of the B.Tech program, a student must attain a minimum number of credits. Specifically, the minimum requirements for admission to the V Semester are 41 credits out of 82, and for admission to the VII Semester, it is 62 credits out of 125.

Students Detained for Lack of Credits:

Students previously detained due to insufficient credits will

advance to the V Semester if they meet the credit requirements (41 credits) from all regular and supplementary examinations conducted up to the IV Semester, before the start of the next academic year. Students previously detained for inadequate credits will advance to the VII Semester if they meet the credit requirements (62 credits for regular students) from all regular and supplementary examinations conducted up to the VI Semester, before the start of the next academic year.
Degree Requirements: To obtain the Degree, a student must accumulate a total of 160 credits.

17. Skill development:

For skill-oriented or advanced skill courses, the allocation of two practical hours will be determined by the relevant Board of Studies (BOS). Three skill-oriented courses from the same domain or across disciplines must be completed during the III/IV/V semesters.

- A comprehensive set of interdisciplinary job-oriented skill courses will be developed collaboratively by participating departments/disciplines, overseen by the Board of Studies. The syllabus, along with prerequisites and laboratory infrastructure requirements for each course, will be outlined. These courses will be integrated into the curriculum structure of each Engineering branch, allowing students to select from the provided list.
- Students will have the option to choose either skill courses offered by the college or opt for a certificate course provided by industries, professional bodies, APSSDC, or other accredited bodies approved by the relevant Board of Studies.
- The Board of Studies for the concerned Engineering discipline will regularly assess and update the list of skill advanced courses offered by external agencies, incorporating the latest courses based on industrial demand.
- Should a student decide to enroll in a Certificate Course offered by industries, professional bodies, APSSDC, or other accredited bodies in place of the department's advanced skill course, credits will be awarded upon the student presenting the Course Completion Certificate from the approved agency/professional bodies, as endorsed by the Board of Studies.

18. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Institute is practicing the Yoga course to all branches of Engineering since 2017-18 by incorporting in curriculam named VR17.

The institute is practicing a course namely Technology and society as a mandatory course for all UG programs to achieve the following outcomes which are part of Indian knowledge systems

- Understand the origins of technology and its role in the history of human progress.
- Know the Industrial Revolution and its impact on Society
- Interpret the developments in various fields of technology till Twentieth Century.
- Distinguish the impacts of Technology on the Environment and achievements of great scientists.

In India, yoga continues to be an important part of the country's cultural and spiritual heritage. It is taught in schools and universities, and there are numerous yoga
centers and ashrams throughout the country. In 2014, the Indian government declared June 21st as International Yoga Day, a day to celebrate the global popularity and importance of yoga. The rich and complex history of Yoga practise in India that spans thousands of years has evolved and developed over time, integrating various philosophical, religious, and cultural influences. Today, yoga is practiced around the world and continues to be an important part of India's cultural and spiritual heritage.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

Since 2013, the institution has been practicing Outcome-Based Education (OBE), making it one of the few colleges in the country with a meticulously designed, industry-relevant, and flexible curriculum. Each course adheres to well-defined Course Outcomes (COs), Program Outcomes (POs), and Program Specific Outcomes (PSOs) in accordance with NBA guidelines. Accreditation for undergraduate programs (Civil Engineering, Information Technology, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering) has been in place since 2014/15, while postgraduate programs (Computer Science and Engineering, CAD/CAM, Electronics and Communication Engineering - Signal Processing, Civil Engineering - Structural Engineering, Electrical and Electronics Engineering - Power System) received accreditation in 2015.

The teaching-learning process employs various methods, including experiential learning, participative learning, and problem-solving methodologies, utilizing ICT facilities, Learning Management Systems (LMS), and e-resources. Student-centric pedagogical approaches such as flipped classrooms, case-based instruction, project-based

learning, experiential learning, group discussions, brainstorming, role plays, and field-based learning, including visits to industrial units and research labs, are implemented to actively engage learners and achieve predefined goals. The institution follows Bloom's taxonomy in lesson plan preparation, assessment, and evaluation. The attainment of COs, POs, and PSOs is measured in each semester using both direct and indirect assessment tools. Student performance, aligned with higher levels of Taxonomy, guides continuous improvement measures in content delivery, assessment, and evaluation to enhance skills and competencies.

To realize its Vision and align with its Mission, the institution has identified focus areas in collaboration with industry experts, exposing students to real-time industrial and societal problems, and establishing labs in partnership with multinational companies, government, and private sectors. This approach aims to create a comprehensive outcome-based model, equipping students with the necessary skill set and social consciousness to become industry-ready professionals.

The institution actively communicates POs, PSOs, and COs for all programs to stakeholders across the institution through display boards, the institute's website, and syllabus books.

20.Distance education/online education:

Extended Profile

1.Programme

1.1   **18**

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.Student

2.1   **5405**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	[View File](#)

2.2   **1379**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.3   **10671**

Number of students who appeared for the examinations conducted
by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.Academic

3.1   **845**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.2   **334**

Number of full-time teachers during the year:

Extended Profile

1.Programme

1.1	**18**
Number of programmes offered during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1	**5405**
Total number of students during the year:	

File Description	Documents
Institutional data in Prescribed format	View File

2.2	**1379**
Number of outgoing / final year students during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3	**10671**
Number of students who appeared for the examinations conducted by the institution during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1	**845**
Number of courses in all programmes during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	**334**

Number of full-time teachers during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

3.3 Number of sanctioned posts for the year:	**59**

4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	**733**
4.2 Total number of Classrooms and Seminar halls	**95**
4.3 Total number of computers on campus for academic purposes	**1635**
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	**1344.64**

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The curricula developed and implemented have relevance to the regional/national/global developmental needs with well-defined learning objectives and outcomes. Curricular components are reviewed and redesigned by considering feedback from all stake-holders and guidelines issued by regulatory bodies, affiliated university and government. Several Memoranda of Understandings with local and national industries relevant to programs have been signed to make students acceptable at local, national and global level.

The Institute integrated Choice Based Credit System and self-learning courses using MOOCS platform through Swayam, NPTEL, Course era etc. and some industry offered courses. Value added courses to enhance communication, employability and entrepreneurship skills are included in the curriculum. Engineering project in Community Services (EPICS), Internships and live projects are also undertaken by students to enhance employability. Mandatory courses as suggested by AICTE are also incorporated. Skill oriented courses by external agencies like industry, professional and other accredited bodies are introduced in the new curriculum to map PO and PSOs of a program. The Institute established an Entrepreneurship Development Cell (EDC) that helps in developing entrepreneurship skills among the students.

Programs are given additional value through Minor and Honours components. A student opting Minor program needs to complete additional courses in a program other than parent program. Similarly, a student opting Honours program needs to complete additional advanced courses in the same program.

Curriculum revision is a continuous process in line with regulatory bodies, industry and society even though the normal cycle of revision is 3 to 4 years.

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	Nil

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

9

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

719

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	No File Uploaded

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

83

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

18

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The institute integrates cross cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the curriculum. The mandatory courses which address these cross cutting issues are 'Induction Program', 'Professional Ethics & Human Values' and 'Technology and Society' in the first year programs and two courses 'Indian Constitution' and 'Environmental Studies' in second year programs. During third year 4 more courses are integrated as humanities elective from which every student must opt one course. These are 'Human rights and Legislative procedures', 'Philosophy', 'Psychology', and 'Law for Engineers'. A practical mandatory course EPICS (Engineering Project in Community Services) is included in the curriculum in which students have to go to different parts of society in identifying local problems and developing solutions, which are sustainable and environmental friendly.

In addition to enriching the curriculum by integrating cross cutting issues, the institute organises various awareness programs and events by the NSS unit to alert the students about Human values, Ethics, Environment and Gender awareness. The institute provides equal opportunities to boys and girls in all types of student activities organised. Special programs for girl students are arranged for achieving Women Empowerment.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

43

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

4111

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

2513

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.vrsiddhartha.ac.in/feedback/
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.vrsiddhartha.ac.in/feedback/
Any additional information	**No File Uploaded**

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1420

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

758

File Description	Documents
Any additional information	**No File Uploaded**
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Assessment Mechanism:

The slow and fast learners are identified through

1. **Diagnostic test, conducted at their entry level and**
2. **Continuous assessment and semester end examinations-those who got < 50% marks in continuous assessments and have one or more backlogs in semester end examinations are considered as slow learners. Those who got CGPA > 7.75 are considered as Fast-Learners.**

- **Measures to improve the performance of slow learners**

- **Bridge Classes - to fill the gap between the student knowledge and the current course requirement.**
- **Remedial Classes- to reach to the expected learning level.**

- **Counselling Sessions- conducted regularly and individual proctor dairies are maintained to record academics, extra and co-curricular activities.**
- **Expert lectures in personality development to facilitate better attitude, communication and stress management.**
- **Quality circles- involving fast-learners in special classes to motivate slow-learners and clarify their doubts.Measures are taken to prepare the fast learners to make them ready to higher levels of learning.**

Measures are taken to prepare the fast learners to make them ready to higher levels of learning.

Advanced Learners: Students getting CGPA > 7.75 are considered as Fast-Learners.

- **Choice Based Credit System (CBCS): Offered from second year onwards that enable Full time internships/ project works in industries.**
- **To concentrate on trainings with reference to innovations.**
- **Publish their projects in quality journals/ Scopus supported conferences.**
- **To participate industry driven competitions.**
- **To focus for startups and entrepreneurships.**
- **Preparing for competitive examinations**
- **Promoting for Self-Learning/MOOCs**
- **Preparing for placements aiming high end packages**
- **To participate in conferences/seminars, quiz competitions, paper/poster presentationsand global certifications.**

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	**Nil**

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
Nil	5406	334

File Description	Documents
Upload any additional information	[View File](#)

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

EXPERIENTIAL LEARNING ICT in Teaching-Learning:

Internships: The institute facilitates internships and industry projects through MOUs with the industries and premier institutions.

Collaborative Laboratories: The institute collaborated with SIEMENS, DASSAULT, IBM, ORACLE, CISCO, NI Academy etc. to train in industry relevant needs.

Industry Driven Competitions: Participation in competitions conducted by industries such as Code Vita, Hackthon and Hackerearth, Codechef, etc., at national/global level.

Field Visits and industries: to experience industry operations and their challenges.

MOODLE : Asynchronous teaching, group tasks, video lectures, PPTs, case studies, etc.

PARTICIPATIVE LEARNING

Workshops / Seminars: Participation in workshops/seminars on modern trends and technologies involving industry experts.

Group Tasks / Mock Interviews: conducted from second year onwards in soft skills and Mock interviews to improve confidence levels.

Model Development / Case studies: To apply theoretical knowledge & experience practical skills and competencies.

Field visits: To correlate the theoretical knowledge with practical and real applications.

PROBLEM SOLVING LEARNING

Open-ended problems in Laboratories: To develop feasible solutions in extraordinary manner using current technologies.

Innovative models: Take up real time problems and develop innovative products/models with novelty.

Term paper, Mini and Major Projects: Real-time/industry/society problems are given as group tasks which include experimentation, analysis, and design.

Individual/group assignments: tasks related to case studies, current technologies and industry needs are assigned for individual student / group of students to address and develop feasible solutions.

File Description	Documents
Upload any additional information	**No File Uploaded**
Link for additional Information	**Nil**

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

All classrooms are equipped with ICT enabled tools.

Students and faculty can access NPTEL Video Lessons, e-books and e- journals throughout the campus for Self learning courses. In addition, Faculty are preparing video lectures and made available in the college website for the benefit of the students.

Moodle is used for blended learning, flipped classroom and other e- learning projects.

To maintain digital platform and function smart, Learning Management System is introduced incorporating the following items

- **Course Details**
- **Student details**
- **Faculty details**
- **Academic assessments**
- **Course Materials**

The College uses LMS(MOODLE) as one of the best practices in teaching and learning. All departments adopted the system for enhancing the student learning experiences. Following are the some of the applications implemented:

- **Conduction of online exams**
- **Conduction of online class work and laboratory sessions Course delivery related instruction materials are made available to students**
- **Activity based learning is inculcated through LMS like quiz conduction, group activities, developing technical solutions to problem solving in laboratories, case studies etc.**
- **Video demonstrations, PPT are also uploaded in LMS to implement ICT based learning**
- **Value Added courses implementations with assessments are carried on through LMS**
- **Question banks, questions proposed in assignment exams are uploaded by faculty in LMS to sustain good academic performance**
- **Assignment submission links are provided for students to submit solutions within the specific targets**

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.vrsiddhartha.ac.in/e-content-development/
Upload any additional information	**No File Uploaded**

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

301

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

- **Programme-wise Academic Calendars are prepared specifically earmarking the semester-wise schedules.**
- **The calendars are prepared keeping the minimum number of working days duly taking the National & Public holidays, Festival breaks, Summer vacation, in addition to the College Fests, Training Programmes, Placement Activities etc into cognizance.**
- **The academic calendars are approved in Academic Council. The calendars are communicated through the webmail to all the relevant functionaries for adherence.**
- **Preparation of Course plan : Faculty prepare teaching plans as a part of their course files keeping the following points in view**

Preparation of Course plan :

Respective Members of faculty prepare teaching plans as a part of their course files keeping the following points in view

- **Syllabus content to be delivered Time allotment**
- **Teaching methodologies**
- **Assessment tools**
- **Contemporary developments**
- **Cognitive levels of learning**
- **MOODLE**

Review and Monitoring :

- **Course coordinators undertake an intense review in relevant courses**
- **Module coordinators take up a conceptual review related to delivery and assessment of different courses in tune with the respective modules**
- **Programme coordinators take up a comprehensive review**

Adherence :

The institute strictly Adheres the academic calendar, except at unforeseen circumstances without prejudice to the overall deadlines and some of the important items as part of the academic calendar is permitted subjected to the approval in the Deans and HODs meeting chaired by the Principal.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

334

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	**No File Uploaded**
Any additional information	**No File Uploaded**

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

158

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

3214

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	**No File Uploaded**

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

16

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	[View File](#)
Any additional information	**No File Uploaded**

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	**No File Uploaded**
Upload any additional information	**No File Uploaded**

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Examination schedules are prepared by adhering to Institute Academic Calendar. Respective circulars will be circulated to conduct continuous examinations. Mini project and major project are reviewed at three stages.

The marks obtained are posted on CMS-VRSEC ONLINE and the hard copies of mark award lists are submitted to the exam branch for further scrutiny, record and storage.

All the pre-examination and post-examination tasks have been integrated with EMS services using BeeS examination tool. Right from notifying the examinations in the college website, fee payment of the students through payment gateway, preparing database of eligible candidates, pre-printed bar-coded OMR answer booklets, etc to post-examination tasks up to declaration and issue of marks memos, the college has been involving electronic

processes.

Day wise/room wise/semester wise seating arrangement is prepared for all the examinations. Faculty are appointed as invigilators from different departments. The question paper for the end semester exam is set by external faculty who taught the subject for at least three years drawn from the approved list of paper setters. Enough care is taken to ensure the standard, spread of the syllabus and mapping of COs and following BLOOMS taxonomy. Special squads with internal and external faculty, prompt actions by Malpractice enquiry committee against malpractices, if any, relevant concessions for the Physically Challenged students with minimum 40% of disability as per norms, etc are regular features.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

In multiple dimensions, the college provides disseminates COs, POs and PSOs to teachers and students

Communication to the teachers:

- POs and COs are developed for each courses involving the faculty of the department and are approved in the BOS meeting after thorough discussions.
- After accepted in department BOS meeting, these are approved in college Academic council meeting.
- After approval in Academic Council meeting, all POs and COs are disseminated in website, faculty and students

Communication to Students:

Manual Communication:

First year Induction Programme: Lecture-demos are organized under Induction Programme in which POs are presented to students.

Introduction of Course Outcomes: Respective COs are presented at

the beginning of each course

Publication of Outcomes in the Curriculum Books:

COs and CO-PO mapping is placed in syllabus books. Multi-coloured boards depicting the POs are placed for wider awareness among students

Communication through Website: POs are presented in the college website (www.vrsiddhartha.ac.in)

COs are also published in the front page of department website.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Attainment of Outcomes:

- The Program Outcomes (POs) are accomplished through curriculum.
- Every course is defined with Course Outcomes (COs) and is mapped to POs.
- Performance evaluation criteria is used for quantitative assessment of COs.
- Thus the attainment of COs provides an evidence towards attainment of POs.

Methods for Assessment, Evaluation and Measurement of POs

Direct Assessment methods

Indirect Assessment methods

Direct Assessment methods: COs are assessed through Sessional & Assignment Examinations, Home Assignments and sem end theory and practical examinations. CO analysis is carried out by faculty for each course and documented in Faculty Course Assessment Report (FCAR). The contributions of COs are assessed in high, moderate

and low levels, towards the attainment of POs.

Indirect Assessment Methods:

Course end survey: It is collected from the students at the end of every semester for all the courses for their satisfaction of COs.

Programme Exit survey: This survey taken from final year students at the completion of their B.Tech programme, which serve as supporting evidence for PO assessment

Alumni Survey : This survey is conducted annually through Google link or mail to Alumni towards PO attainment

Employer Survey: This survey is taken from the employer to measure the PO attainment

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

1350

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	[View File](#)
Upload any additional information	No File Uploaded
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://www.vrsiddhartha.ac.in/student-satisfaction-survey/

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Promotion of research is facilitated through diverse approaches such as incentives, Career Advancement Norms, and inclusion in the Annual Faculty Appraisal process. Detailed information about research promotion schemes and incentives is available on the website. Moreover, individual departments have special interest groups dedicated to working on specific thrust areas.

Additionally, there is a dedicated Entrepreneurship Development Cell(EDC) and Institute Innovation Council(IIC)that caters to the entrepreneurial needs of students.

R&D Highlights the Institute:

- Total R&D Grant received from SERB-DST, ISRO, NRSC, Postal department, IMEDS Global, etc. is Rs.220.73 Lakhs
- A Seed grant of Rs.16.66 Lakhs was provided for research during the year.
- Revenue generated from consultancy during the year was Rs.183.62 Lakhs.
- Research papers in Scopus database(Journals, Conference and Book chapters) are 600and Citiations are 1112.
- 46 Research capacity-building programs (Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship, etc.) were organized during the year.
- The total number of Faculty recognized as PhD guides is 108, out of which 10 faculty are recognized during the year.
- MoUs with institutions/organizations for training and research & development are 67.
- Rs. 10,76,887 as financial support and incentives for Research projects, Publications, filling patents, etc.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.vrsiddhartha.ac.in/wp-content/uploads/policy/research_policy.pdf
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

16,66,867

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

3

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

229.43

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

25

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.vrsiddhartha.ac.in/rd/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

108

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

7

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.vrsiddhartha.ac.in/rd/
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The Institute provides opportunities to young engineers interested in entrepreneurship to attend seminars and events targeted at building entrepreneurial skills, with an objective of self-employment. This will open gates for a new breed of technopreneurs and more avenues of employment opportunities and leading the nation towards industrial excellence and self-reliance.

- All Engineering Depts. have Research centers recognized by affiliating University and IIC - Institute Innovation Council
- Established V R Siddhartha TBI foundationto promote a culture of innovation-based entrepreneurship, build competencies through practical, hands-on experiential learning, and empower entrepreneurs to launch successful ventures.
- Created Incubation centers in all engineering departments to nurture innovative ideas to transform them into successful Start-Ups.
- The Institute Technology Business Incubator (TBI) promotes innovation and entrepreneurship culture.

Some of the Prominent Achievements

- Highest performance rating to the IIC by the MIC
- Institute is approved in-principally as Host Institute (HI) for implementation of the Incubation component under the MSME Innovative Scheme (Under MSME Champion scheme) in the Meeting of 4th PMAC held on 26/06/2023 at New Delhi subject to fulfilling all conditions issued by O/o DC MSME from time to time on MIS Portal.
- NIRF Innovation ranking 51-100 in the year 2023
- Received 15 lakhs grant from MSME in the year 2022-23

- **16 faculty members are trained as innovation ambassadors by the MIC**
- **Selected as a mentor Institute under the Mentor-Mentee scheme by the MIC**
- **Start-ups incubated: 16**
- **Innovation recognitions from prominent institutes: 17**
- **Total Innovation grants from prominent institutes in last three years: 1,54,46,520**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/institutions-innovation-council-iic/

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

58

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	**No File Uploaded**

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

4

File Description	Documents
URL to the research page on HEI website	https://www.vrsiddhartha.ac.in/rd/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

289

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

220

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/rd/

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

1112

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

45

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

1,78,16,091

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

1318845

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

NSS coordinates numerous outreach camps in the neighboring adopted villages, where volunteers engage in various activities addressing social issues. These activities encompass cleanliness drives, tree plantation, road safety initiatives, environmental awareness campaigns, women empowerment initiatives, promotion of national integrity, AIDS awareness programs, blood donation camps, health check-up events, veterinary guidance sessions, farmers' meetings, and raising awareness about farmer suicides.

Specifically, nine activities are dedicated to Swachh Bharath, focusing on tasks such as removing plastic waste from roadsides

and conducting tree plantation in villages and along roads. Additionally, five activities aim at environmental protection to reduce energy wastage and combat vehicular pollution.

Two major vaccination drives were organized on campus, benefiting 500 students, faculty, and non-teaching staff. Furthermore, 500 students and faculty actively participated in three blood donation drives and one blood donation awareness program conducted on the campus.

Nine health-related activities were undertaken, including initiatives such as early cancer detection in village populations, pulse-polio vaccination programs, and health and nutrition campaigns for girls.

Six calendar events of national importance, such as Independence Day, Youth Day, and Yoga Day, were organized with the participation of 690 students. Other activities focused on the rights of the girl child, emphasizing education, health, and nutrition. Initiatives also included the enrollment of new voters and discussions on the significance of this democratic process, as well as the distribution of books to underprivileged school children.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/nss/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

8

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated

programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

52

File Description	Documents
Reports of the events organized	[View File](#)
Any additional information	[View File](#)

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

6548

File Description	Documents
Reports of the events	[View File](#)
Any additional information	[View File](#)

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

202

File Description	Documents
Copies of documents highlighting collaboration	[View File](#)
Any additional information	**No File Uploaded**

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

67

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	[View File](#)
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	[View File](#)
Any additional information	**No File Uploaded**

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

The institution boasts exceptional infrastructure spanning 24.05 acres of land, featuring an instructional area of 27,271 sq.m and a total built-up area of 66,165 sq.m. It comprises 108 laboratories, 86 classrooms, 9 smart classrooms, 9 seminar halls, and an auditorium with a seating capacity of 600.

All classrooms are well-equipped with adequate lighting, proper ventilation, multimedia projectors, Wi-Fi, podiums, fans, lights, and glass boards. Smart classrooms feature LCD projectors with smart interactive boards, Wi-Fi, and audio and video facilities to enhance the effectiveness of the teaching-learning process.

Seminar halls are equipped with LCD projectors, whiteboard facilities, Wi-Fi, and audio and video capabilities. The laboratories are furnished with state-of-the-art facilities, ensuring regular maintenance, including system upkeep, antivirus updates, software updates, calibration, and servicing.

Beyond the standard curriculum labs, the college has established 23labs and Centers of Excellence (COEs) in collaboration with the industry, focusing on skill enhancement in advanced technologies over the last five years.

The entire campus is covered by mobility-aware Wi-Fi connectivity with abundant bandwidth. All computers are seamlessly connected to the campus networks through a 1Gbps fiber optic backbone.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/green/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The college encompasses 10 acres of land dedicated to play ground. The Department of Physical Education is well-equipped with facilities for both outdoor and indoor games. The institution

proudly hosts inter-university zonal tournaments on campus.

To foster cultural engagement among students, cultural clubs have been established within the college. These clubs operate at both the department and institute levels, including Literary, Photography, and Music clubs at the institute level. The institute has appointed a cultural coordinator to oversee all cultural activities.

For Yoga activities, a 600-capacity auditorium is provided, and a Yoga course is offered as part of the curriculum. The college offers ample facilities for various sports, including Cricket, Football, Volleyball, Ball badminton, Kho-Kho, Tennicoit, Throw ball, and Basketball. There are two Cricket Net Practice arenas with Astro layer, as well as facilities for sports like long jump, high jump, shot put, disc throws, and a 400-meter eight-standard lane track.

The college dedicates 661.8 sq.m of built-up area for indoor games, featuring Table Tennis, Badminton, and Chess. Gymnasium facilities are available in the Physical Education Department and the women's hostel. Cardio exercise equipment, such as cross trainers and treadmills, are accessible in the Girls' hostel, which also features two outdoor badminton courts and a recreation room equipped with table tennis, carom boards, and chess.

The campus boys' hostel is equipped with volleyball and two badminton courts for recreational activities.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/physical-education/

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

95

File Description	Documents
Upload any additional information	View File
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

948.18

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	**No File Uploaded**

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

The Library follows an open access system, encouraging the user to browse freely in the stock area. It is fully automated using the following Integrated Library Management System:

- **Name of the ILMS software: Libsys LSM**
- **Nature of automation (fully or partially):Fully**
- **Version:10**
- **Year of automation: 1995**
- **Online Public Access Catalogue +(OPAC): Open for all students and staff through remote access throughout the campus.**

Year

Up-gradation

Amount Spent Rs.

2023

Libsys (upgraded to Version 10)Cloud Services

1,77,000/-

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/library-home/

4.2.2 - Institution has access to the following: **A. Any 4 or more of the above**
e-journals e-ShodhSindhu Shodhganga
Membership e-books Databases Remote
access to e-resources

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	[View File](#)
Upload any additional information	[View File](#)

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

28,06,806

File Description	Documents
Audited statements of accounts	[View File](#)
Any additional information	[View File](#)
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	[View File](#)

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

656

File Description	Documents
Upload details of library usage by teachers and students	[View File](#)
Any additional information	**No File Uploaded**

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

Internet Bandwidth Availability:

The institute ensures round-the-clock internet access with a bandwidth of 1 Gbps through redundant leased line connections.

Internet Service Providers:

1. **Reliance Jio Infocomm: 300 Mbps 1:1 leased line**
2. **TATA Tele Services: 700 Mbps 1:1 leased line**
3. **BSNL: 30 Mbps**

WiFi Coverage: There are 150 WiFi access points strategically placed across the campus, including the library, classrooms, labs, faculty cabins, seminar halls, and open areas. These access points are managed by two WiFi controllers to provide seamless wireless internet access to both students and faculty.

Internet Access in Various Areas: The entire campus, comprising labs, classrooms, corridors, faculty cabins, library, department offices, seminar halls, conference halls, and hostels, is equipped with both wired and WiFi internet access.

Computers with Internet Access: There are 1600 computers with internet connectivity available on campus.

Campus Infrastructure: The campus features a fiber optic backbone with 1 Gbps connectivity, which can be upgraded to 10 Gbps.

Security Measures: The institute has implemented IPv4 subnets for all departments and configured department-level VLANs in network switches. The internet firewall, SOPHOS XG-450 Firewall with Full Guard Protection, manages base firewall, network protection, web protection, email protection, and web server protection operations. The firewall handles concurrent connections of

13,640,000 and new connections per second at 1,87,000.

Expenditure for Firewall Establishment: The institute invested Rs. 15 lakhs in 2020-21 and Rs. 18 lakhs in 2017-18 for the establishment of the firewall.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/internet-home/

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
5405	**1635**

File Description	Documents
Upload any additional information	[View File](#)

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	[View File](#)
Upload any additional information	**No File Uploaded**

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

A. All four of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/e-content-development/
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

1344.64

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The institution has established procedures in accordance with the maintenance policy to ensure the upkeep of physical, academic, and support facilities.

Operating Procedure:

Any issues within a department are reported to the maintenance in-charge through mail. The maintenance in-charge assigns a skilled person or technician to address the reported problem. The assigned skilled person resolves the issue on-site if no additional materials are required. If additional materials are needed, a request is sent to the maintenance section through an indent. If the required materials are to be procured externally, approval is sought from the maintenance in-charge or the Head of the Institution. Arrangements are then made for the procurement of the necessary materials to resolve the problem.

Other Maintenance:

Annual inspections of electrical installations for maintenance and

safety of electric supply are conducted by the Directorate of Electrical Safety, Government of Andhra Pradesh. Fire safety inspections are carried out annually by the AP State Disaster Response and Fire Service Department. Pest control maintenance is performed periodically. The Department of Mechanical Engineering oversees the maintenance of the central workshop facility, providing services such as custom fabrication of cabinets and desks, installation of doors and windows, and the creation of frames for displaying banners.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/wp-content/uploads/policy/maintenance_policy.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

3046

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

437

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development   A. All of the above

and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

File Description	Documents
Link to Institutional website	https://www.vrsiddhartha.ac.in/wp-content/uploads/2019/09/5.1.3.xlsx
Details of capability development and schemes	View File
Any additional information	No File Uploaded

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

5395

File Description	Documents
Any additional information	No File Uploaded
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

1202

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	**No File Uploaded**

5.2.2 - Number of outgoing students progressing to higher education

89

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	**No File Uploaded**

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

201

File Description	Documents
Upload supporting data for students/alumni	[View File](#)
Any additional information	**No File Uploaded**

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

41

File Description	Documents
e-copies of award letters and certificates	[View File](#)
Any additional information	[View File](#)

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

The college involves the students who are primary stake holders to the utmost possible extent in various administrative bodies/committees. Students are involved in the following committees 1. Student Council 2. Internal Quality Assurance Cell (IQAC) 3.Department Advisory Boards (DAB) 4.Central Library 5.Anti – Ragging Coordination committee 6.Internal Complaints Committee(ICC) 7.Canteen committee 8.Hostel mess and ambience 9.Student professional Chapters 10.Sports Committee 11.NSS Committee 12.Internal Committee 13.Women Welfare committee 14.Training & Placement Cell. It's not only for listening to voices of the students but also to make the main integral part of the very functioning of the units in varying degrees based on the kind of the functional units. In addition other following functional units, the college student council has been in place. Levels of student involvement:

- **Administrative planning**
- **Discipline regulatory Monitoring unit**
- **Functioning related to career oriented activities,**
- **college level Amenities Facilities**
- **Units of Co & Extracurricular planning execution.**

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	**Nil**

5.3.3 - Number of sports and cultural events / competitions organised by the institution

19

File Description	Documents
Report of the event	<u>View File</u>
List of sports and cultural events / competitions organised per year	<u>View File</u>
Upload any additional information	**No File Uploaded**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alumni Association of V.R. Siddhartha Engineering College was registered as a society named as VR Siddhartha Engineering College Old Students Association {VRSECOSA}. The Alumni have created a corpus fund of Rs. 4 Crores, the interest of which is being utilized for various uses such as scholarships to the economically challenged students. Alumni Association initiated a Scholarship programme "SIDDHARTHA SAHAAYA". Under this programme, meritorious and economically poor students are identified and selected in the first year of their Engineering programme. Each student is awarded Rs. 15,000/- per year towards his/her living expenses and gets continued for four years of the programme. 139 Scholarships of Rs20.85 Lakhs were disbursed during the academic year 2022-23. About 26 Guest lectures were delivered by the alumni in the academic year 2022-23.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	**Nil**

5.4.2 - Alumni's financial contribution during the year

E. <2 Lakhs

File Description	Documents
Upload any additional information	[View File](#)

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The vision and mission statements define the institute's distinctive characteristics in addressing the needs of stakeholders involved.

Management and Principal actively participate in the Governing Body to ensure the policy statements and action plans are aligned for attaining the mission of institute, disseminates the vision and mission to all stakeholders and involve them in forming the policy statements.

The principal frames the rules and regulations in consultation with Governing body and Academic council of the institution. He reviews the KPI outcomes from the implementation of action plans through meetings with various Statutory and non-Statutory committees and makes necessary changes in action plans if required. The management takes review of quality policies and makes amendments in quality policies if required.

Deans take instructions from the principal, implement them, and provide feedback and suggestions to the principal. The HOD is responsible for content delivery, effective teaching and learning process, monitoring mentor system, up-gradation, and maintenance of centre of excellence, ensuring calibration and maintenances of equipment.

The senior professors, with assistance of faculty members, act as conveners of the non-statutory committees and assist the principal on routine administration and academic processes. Teachers play a proactive role in the academic and administrative activities of the institution.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.vrsiddhartha.ac.in/governing-body-minutes/

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The college practices participative management and decentralization in all activities with a balance between transparency and confidentiality. Institute has 4 statutory (Governing Body, Academic Council, Finance Committee, Boards of Studies), 3 Department level committees, 13 non statutory bodies and 12 other Institute level committees with defined roles and responsibilities ensure decentralization and participative management at every level.

Case Study: Examination

The teaching and non-teaching staff members are actively involved in smooth running of examination process.

- **Senior Professor is appointed as a controller of examinations who monitors starting from the notification for semester end examinations, supplementary examinations, setting of question papers, evaluation of answer scripts, malpractice cases and till the declaration of results.**
- **Controller of Examinations (CoE) is supported by another senior professor as Assistant Controller of Examinations who monitors the registration of students for end semester and supplementary examinations, seating plan for the conduct of examinations, allotment of invigilators, collection of the answer scripts at the examination section.**
- **Senior faculty members along with the external observer distribute the question papers to the examination halls, inspect the examination halls and monitor the collection and packing of answer booklets till their submission to the confidential section.**
- **Malpractices if any, they are referred to the Malpractice Enquiry Committee for investigation. The committee then recommends appropriate disciplinary action.**

The non-teaching staff assist the CoE in question paper printing,

seating arrangements, examination material preparation, spot valuation, documentation, issuing of transcripts, etc.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.vrsiddhartha.ac.in/institute-level-committees/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The college successfully achieved the targets set in strategic plan set in 2015-2020 and second Five year (2020-25) Strategic Plan has been framed keeping in view the changing educational scenario with three broad objectives with identified KPIs

Strategic Goals:

1. Research, Innovation & Professional Practice:

2. Graduation Outcomes: Teaching, Learning & Resources:

3. Comprehensive Student Development:

An Activity/Practice: Research, Innovation & Professional Practice

- The five-year strategic plan was divided into year wise targets, 2020-21, 2021-22, 2022-23, 2023-24 and 2024-25.
- Every year targets were distributed to all departments of the institution, according to the strength of the faculty, qualification, and intellectual capability in research.
- Again, the HOD will divide the yearly targets and distributed to the faculty of the department.
- The IQAC will collect those targets, every year, in the form of "annual goals" at the beginning of the academic year and the achievements are collected back at the end of the academic year. ·
- The reasons for not achieving some targets are discussed and necessary initiatives are taken to achieve them.

- **At the same time, the required facilities and manpower to achieve the above targets are also provided on the demand of the department.**
- **This is how, the institution is getting success for achieving the target of the five-year strategic plan.**

File Description	Documents
Strategic Plan and deployment documents on the website	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/wp-content/uploads/2019/09/Strategeic-plan_2020-25.pdf
Upload any additional information	**No File Uploaded**

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

- **The college Organogram represents well-structured administrative setup with roles and responsibilities defined for various bodies.**
- **Service rules, various policies such as recruitment, promotion are available for the functional aspects of the Institution.**
- **The web-based grievance redressal mechanism through the college website addresses systematically, impartially maintaining confidentiality.**
- **The administrative hierarchy of the institute with defined functions of various bodies, availability of service rules, recruitment and promotional policies, grievance redressal mechanism.**
- **Institute has various 4 statutory and 13 non statutory bodies with defined roles and responsibilities ensure transparency, participative management, and decentralization at every level. In addition, 12 Institute level committees and 3 Department Level Committees**
- **Policies for the functional aspects of the Institution: Research and Development Policy, Consultancy Policy, E-Governance Policy, Anti-Plagiarism Policy, Examination Procedures**
- **Anti-Ragging Policy, IPR Policy, Document Retention Policy, Conduct Rules for Students, Conduct Rules for Faculty, Recruitment Policy, Promotion Policy, Incentive Policy**

The Grievance Redressal Committee is constituted to consider all the individual grievances of students and staff. The students and faculty with a genuine grievance may approach the grievance redressal committee to submit his/her grievance in writing to the Convener, Grievance redressal committee of VRSEC. The web-based grievance redressal mechanism is also in place through the college website.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.vrsiddhartha.ac.in/organogram/
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://www.vrsiddhartha.ac.in/policies/

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination   **A. All of the above**

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	**No File Uploaded**

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The following are the welfare measures extended to the teaching and non-teaching staff of the Institute:

Teaching Staff:

- **Health cards to all the employees to get treatment at Pinnamaneni Siddhartha Institute of Medical Sciences, Gannavaram (Sister concerned medical institution) at discounted prices. (For both teaching and non-Teaching**

staff)

- Employees Provident Fund (EPF) and Group savings linked insurance (GSLI)/ gratuity for all regularized teaching and non-teaching staff.
- Maternity Leave for female teaching and non-teaching staff.
- Half-pay medical leave for teaching and non-teaching staff members
- Special casual leaves for attending conferences and workshops.
- Study leaves for higher education and qualification improvement
- Financial support for Registration fees, Dearness allowance, Travel grants for faculty attending conferences and workshops.

Non-Teaching Staff:

- Siddhartha Kalapeetham scholarship is provided for children of non-teaching staff whose parental annual income is Rs.1 lakh.
- In the event of the death of an employee in service, his/her dependant will be considered for employment on compassionate grounds, depending upon the merit of the case, limited to the cadre Junior Assistant, subject to the eligibility of the individual concerned and the availability of vacant posts.
- Employee Staff Insurance (ESI) for all the staff members having a salary of less than 21,000/- per month. Uniform (dress code) at free of cost to the class – IV employees.
- Loans at a low-interest rates through Employee's cooperative society

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

154

File Description	Documents
Upload any additional information	**No File Uploaded**
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	*View File*

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

78

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	*View File*
Upload any additional information	**No File Uploaded**

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

210

File Description	Documents
Summary of the IQAC report	*View File*
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	*View File*
Upload any additional information	**No File Uploaded**

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

- **The college has mechanism of both internal and external audits for the financial activities carried out in the Institution every Year.**
- **Accounts department maintains financial accounts, prepares financial statements audited by external auditor and submits them to all the statutory bodies like AICTE, UGC and State**

Government as and when required.
- The institute maintains its accounts and auditing records since its inception. Considering the effective internal and external auditing mechanisms

The college has both Internal and External audit system. Internal Audit: The Principal constitutes an Internal Audit Committee with three members. The audit is conducted on a Sampling basis to check the correctness of the financial transactions and statement affairs of the Institution. The Committee verifies Cashbook, Bank accounts, Ledgers, Bills,Vouchers, and statement of cash position and cash flow physically and conducts sample check on the heads of various accounts, balance dates, and postings.

External Audit:

M/S Rajeswar and Co., Vijayawada, have been auditors for the Institution from the past two decades. An annual external audit is conducted, and the reports are submitted to the management. The Finance Committee ratifies these reports. With all statutory obligations duly complied, there were no major audit objections until the last audit. Audit of funds received from Government and Non-Government research funding agencies and Consultancy is duly done as per the guidelines of the funding agencies as and when required and submitted.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	Nil

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

5.46

File Description	Documents
Annual statements of accounts	[View File](#)
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	[View File](#)
Any additional information	[View File](#)

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

The institution has developed strategies for mobilizing resources and ensures transparency in financial management. The institute follows established procedures and processes for planning and allocation of financial resources. The income and expenditure of the institution are subjected to regular internal and external audits. The income and expenditure of the institution are subjected to regular internal and external audit.

Income: Tuition fee, research grants, consultancy, alumni funds, philanthropist funds and interest on bank deposits

Expenditure: Salaries and Benefits, Power and Fuel, Printing and Stationery, Postage and Telephones, Periodicals and magazines subscriptions journals, Affiliations and Renewals, Travelling and Conveyance, repairs, replacements, maintenance, upkeep, advertisement, audit fee, taxes and licenses, Miscellaneous, Depreciation, Furniture, Laboratory Equipment and consumables, etc., Establishing Centres of excellence and Industry Collaborative Labs. Library, R & D and incentives, Skill Development and Innovation, Training & Placement, Software procurement, up-gradation, and maintenance, Wi-Fi, Internet & Networking Student Services- NCC, NSS, Sports, Scholarships to merit and poor students.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	**Nil**

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The IQAC has contributed significantly for institutionalizing the following quality assurance strategies and processes. Among the various initiatives, few are listed here:

• Streamlining the Student projects emphasizing Paper publications, Patents, Innovative model development & Start-ups.

• **Annual planning & Implementation on Execution of Extension activities (NSS) in adopted villages focusing on technical issues in particular and getting solutions by collaborating with outside organizations.**

• **Annual planning & Implementation on Securing ample number of National & State level awards.**

• **Implementation of Activity Calendar in addition to Academic Calendar.**

• **Institutionalization of R&D Excellence Award Identification & subsequent strengthening of one major thrust area of Research in Emerging fields in every department by providing necessary infrastructural facilities & identifying competent faculty, to fulfill the "Make in India" and "Atmanirbhar Bharat".**

• **Revamp of "Continuous (Internal) assessment pattern".**

• **Streamlining – EPICS. The Projects should confine to societal problems with innovative solutions and reach targeted users.**

• **Executing Industry / Institute (IITs/NITs) collaborative joint venture projects in all the departments.**

• **Refresher Training program on OBE (Focusing on Higher order knowledge levels, defining appropriate COs & setting higher PO attainment targets).**

• **Annual R& D reviews with reference to strategic plan.**

Incremental improvements: The institution was accredited with A+ grade (2nd cycle) in the month of August 2021. Hence it is too early to declare the improvements due to post accreditation quality initiatives taken by the IQAC.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.vrsiddhartha.ac.in/iqac-meetings/

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

- IQAC adopts well-defined audit mechanism to reviewTeaching-Learning process, learning outcomes of the courses on a regular basis by the experts from reputed institute such as NIT and NITs
- ISO audit mechanism so that all the processes, structures & methodologies of operations are systematised and streamlined for effective implementation
- Based on the SWOT report, a benchmarking exercise is made to prepare action plan such as conducting pedagogy programmes, curriculum revision, reforms in examination process

The institution periodically reviews the teaching learning process for the attainment of outcomes. It also reviews quality assurance policies, mechanisms and outcomes. This Structured feedback is analyzed and appropriate follow action is taken to meet the standards.

Case study:

IQAC of VRSEC is adopting a well-defined review mechanism of Teaching-Learning process through

(i) Performance Based Appraisal System (PBAS) and online feedback Mechanism and

(ii) Academic & ISO audits

Review through PBAS All the faculty are reviewed through PBAS for the parameters Curricular, Co-Curricular, Research, and Administrative & Extra-curricular activities. Where, maintenance of course file for every course by all faculty is mandatory. Teaching & learning processes are reviewed wrt usage of innovative teaching methodologies. Design of new Experiments related to course outcomes, student counselling, student feedback, project guidance, remedial, bridge, content beyond syllabus, etc.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.vrsiddhartha.ac.in/iqac-meetings/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.vrsiddhartha.ac.in/annual-reports-aqar/
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Gender equity programs at Velagapudi Ramakrishna Siddhartha Engineering College typically aim to promote equal opportunities and support for all genders.

Some common initiatives and strategies include:

Awareness and Education: Offering workshops, seminars, and courses that raise awareness about gender bias and diversity issues in engineering, fostering a more inclusive environment.

Support Networks: Establishing support networks and clubs for students, faculty, and staff, such as women in engineering groups, to provide a sense of belonging and opportunities for networking.

Diverse Faculty and Staff: Encouraging the hiring and promotion of diverse faculty and staff members, as role models and mentors.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	**Nil**

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy   Biogas plant Wheeling to the Grid   Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

The following is the comprehensive waste management in the campus.

- **Awareness among students through student clubs: Awareness on collection, segregation and disposal has been created through students clubs, since the participation of students and faculty play a key role for effective solid waste management in the campus**
- **Collection of Solid waste: Installed separate bins for degradable (organic) and non-degradable (plastic bottles, covers, packing, cans, etc) waste collection across the campus on daily basis.**
- **Segregation of Solid waste: The degradable waste matter and non-degradable waste are separated and degradable waste is transported to the compost plant. While non-degradable waste such as plastics is handover to local panchayat.**
- **Composting: A compost plant was established in the campus to decompose degradable waste into organic manure. Aerobic composting method is being used for making the manure.**
- **Waste Recycling: The manure made in the compost plant is used for the campus plantation and greenery.**
- **E-Waste Management: Old computers are donated to the local schools, where they are used to demonstrate to show the components of computer, disassembling - assembling as well.**
- **Awareness Campaigns: Conducted awareness programs and**

workshops to educate the college community about waste reduction, recycling, and the environmental impact.

- **Reduce Single-Use Plastics: Encouraged the use of reusable items like glass/steel water bottles, jute bags and lunch containers to reduce plastic waste.**

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

B. Any 3 of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

1. **Restricted entry of automobiles**
2. **Use of bicycles/ Battery-powered vehicles**
3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

B. Any 3 of the above

1. **Green audit**
2. **Energy audit**
3. **Environment audit**
4. **Clean and green campus recognitions/awards**
5. **Beyond the campus environmental promotional activities**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	No File Uploaded

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance,

A. Any 4 or all of the above

reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	View File
Any other relevant information	**No File Uploaded**

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

- **Inclusive Engineering College Environment**
- **Accessible Facilities: Ensure that the campus and facilities are physically accessible to all, including individuals with disabilities. This includes ramps, elevators, and accessible restrooms.**
- **Diverse Faculty and Staff: Recruit and retain a diverse faculty and staff. Representation matters, and having diverse role models can inspire students from all backgrounds.**
- **Cultural Competence Training: Provide training to faculty, staff, and students on cultural competence and unconscious bias. This helps create a more respectful and understanding community.**
- **Student Organizations: Support and promote student organizations that celebrate diversity and create safe spaces for underrepresented groups.**
- **Inclusive Events: Organize events, seminars, and workshops that focus on diversity and inclusion topics. These can raise awareness and encourage dialogue.**
- **Affinity Groups: Establish affinity groups or clubs for students with shared identities or interests to foster a sense of belonging.**
- **Community Engagement: Encourage students to engage with the broader community through outreach and service projects, promoting social responsibility and empathy.**
- **Zero Tolerance for Discrimination: Enforce strict policies against discrimination, harassment, and bullying. Ensure that incidents are promptly investigated and addressed.**

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View File](#)

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Sensitizing students and employees of an engineering college to their constitutional obligations is an important educational and ethical endeavor. Here are some steps that can be taken to achieve this:

Incorporate Constitutional Education: Integrate constitutional education into the curriculum. Include subjects or modules that cover the constitution, fundamental rights, and duties of citizens.

Guest Lectures and Workshops: Organize guest lectures and workshops by legal experts, constitutional scholars, or activists to discuss the importance of constitutional obligations.

Constitution Day Celebrations: Celebrate Constitution Day (26th November in India) with special events, speeches, and activities to raise awareness about the constitution.

Create Awareness Campaigns: Develop awareness campaigns through posters, newsletters, or social media platforms to highlight key constitutional principles and obligations.

Volunteer and Community Engagement: Encourage students and employees to participate in community service and volunteer activities that promote civic responsibility.

Code of Conduct: Develop a code of conduct for the college that aligns with constitutional principles, and ensure that it is widely disseminated and adhered to.

Partnerships: Collaborate with legal organizations, NGOs, or government agencies that can offer support and resources for constitutional education initiatives.

By implementing these strategies, an engineering college can

create a culture of awareness, respect, and adherence to constitutional obligations among its students and employees

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized   **A. All of the above**

File Description	Documents
Code of Ethics - policy document	[View File](#)
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The College is celebrating the National and International days, events and festivals throughout the year and it is an integral part of learning and building a strong cultural belief in students.

The College celebrates National Festivals such as, Independence Day on 15th August and Republic Day on 26th January with splendour by hoisting the national tri colour flag in the college, where

staff and students pay tribute to all freedom fighters.

Teacher's day is celebrated to promote the values and principles of a true teacher on 5th September, the birth anniversary of Dr. Sarvepalli Radhakrishnan.

The birthday of Mahatma Gandhi on 2nd October is commemorated as Swachhta Diwas. Swachh Bharat Abhiyan is commemorated in order to honour Mahatma Gandhi vision of clean India.

The National Innovation Day is celebrated commemorating the birth anniversary of former President of India, Bharat Ratna APJ Abdul Kalam on 15th October 2021.

Azad Day and National Education Day are held to mark Maulana Abul Kalam Azad's birth anniversary. Various literary, cultural and sports competitions are held during Azad Day celebrations.

The birth anniversary of Sardar Vallabhbhai Patel on 31st October is celebrated as National Unity Day and run for Unity is organized. Thus, the students are blessed with an opportunity to have an insight in the event and struggle and sacrifice, through these celebrations.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	[View File](#)
Geotagged photographs of some of the events	[View File](#)
Any other relevant information	**No File Uploaded**

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Title of the Best Practice: Student Research Publications

Student Research Publications:

The institute is encouraging both UG and PG students to publish

research papers in Scopus-indexed Journals and Conferences through their academic projects to inculcate research within the student community.

Objective of the Best Practice:

- Coordinate the development and publication of research papersdesigned primarily for the benefit of students.
- Provide students from diverse backgrounds, fields of study, classifications, etc., the opportunity to supplement classroom learning by gaining hands-on experience in publication production, enhancing journalistic abilities, and developing leadership skills.
- To motivate the students to gain and exchange the research knowledge by participating in various international conferences organized by reputed institutes.

The Context:

The rapid technological advancements in the academic and research environment of higher educational institutions demand multidimensional participation of students. Industry is also looking for the research potential among the students while coming to the placement drives. The students who form project groups, which are mentored by the faculty, are encouraged to publish the outcome of the project as a research publication.

The Practice:

The student Research publications are encouraged with effect from VR20 Academic Regulations and take into practice vibrantly with a major thrust starting from the academic year 2020- 2021.

Evidence of success:

List of student publications for the Academic Year 2022 - 2023.

S. No.

Name of the Department

SCI Journals

Scopus Indexed Journals

International Conferences

Book chapters

Total

1

CE

03

27

30

2

CSE

02

15

110

127

3

ECE

02

02

83

87

4

EEE

--

--

33

07

40

6

IT

02

72

25

99

7

ME

04

28

32

File Description	Documents
Best practices in the Institutional website	https://www.vrsiddhartha.ac.in/wp-content/uploads/2019/09/Best-pritice.pdf
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust

(within a maximum of 200 words)

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.

The institute has a distinction of establishing several Centers of Excellence (CoEs) and Industry Collaborative Laboratories for training, skill upgradation and placement of students to realize the objectives of outcome based education. The institute has established 4 Centers of Excellence (CoE) and 23 Industry Collaborative laboratories and the details of laboratories are described below

Centres of Excellence (CoE):

1. 3D-Concrete Printing CoE
2. SIEMENS CoE
3. CoE in COMPOSITES
4. TIFAC (Technology Information, Forecasting and Assessment Council) CORE-DST:

Industry Collaborative Laboratories:

1. CISCO NETWORKING ACADEMY:
2. IBM SOFTWARE LAB FOR EMERGING TECHNOLOGIES:
3. DASSAULT SYSTEMS:
4. ORACLE CORPORATION:
5. APPLE AUTHORIZED TRAING CENTER FOR EDUCATION (AATCE):
6. VIDEO ANALYTICS RESEARCH LAB:
7. ANBLICKS IGNITE CENTER:

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The curricula developed and implemented have relevance to the regional/national/global developmental needs with well-defined learning objectives and outcomes. Curricular components are reviewed and redesigned by considering feedback from all stake-holders and guidelines issued by regulatory bodies, affiliated university and government. Several Memoranda of Understandings with local and national industries relevant to programs have been signed to make students acceptable at local, national and global level.

The Institute integrated Choice Based Credit System and self-learning courses using MOOCS platform through Swayam, NPTEL, Course era etc. and some industry offered courses. Value added courses to enhance communication, employability and entrepreneurship skills are included in the curriculum. Engineering project in Community Services (EPICS), Internships and live projects are also undertaken by students to enhance employability. Mandatory courses as suggested by AICTE are also incorporated. Skill oriented courses by external agencies like industry, professional and other accredited bodies are introduced in the new curriculum to map PO and PSOs of a program. The Institute established an Entrepreneurship Development Cell (EDC) that helps in developing entrepreneurship skills among the students.

Programs are given additional value through Minor and Honours components. A student opting Minor program needs to complete additional courses in a program other than parent program. Similarly, a student opting Honours program needs to complete additional advanced courses in the same program.

Curriculum revision is a continuous process in line with regulatory bodies, industry and society even though the normal cycle of revision is 3 to 4 years.

File Description	Documents
Upload additional information, if any	**No File Uploaded**
Link for additional information	**Nil**

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

9

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	[View File](#)
Details of syllabus revision during the year	[View File](#)
Any additional information	**No File Uploaded**

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

719

File Description	Documents
Curriculum / Syllabus of such courses	[View File](#)
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	[View File](#)
MoUs with relevant organizations for these courses, if any	[View File](#)
Any additional information	**No File Uploaded**

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

83

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	**No File Uploaded**
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

18

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	**No File Uploaded**
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

The institute integrates cross cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the curriculum. The mandatory courses which address these cross cutting issues are 'Induction Program', 'Professional Ethics & Human Values' and 'Technology and Society' in the first year programs and two courses 'Indian Constitution' and 'Environmental Studies' in second year programs. During third year 4 more courses are integrated as humanities elective from which every student must opt one course. These are 'Human rights and Legislative procedures', 'Philosophy', 'Psychology', and 'Law for Engineers'. A practical mandatory course EPICS (Engineering Project in Community Services) is included in the curriculum in which students have to go to different parts of society in identifying local problems and developing solutions, which are sustainable and environmental friendly.

In addition to enriching the curriculum by integrating cross cutting issues, the institute organises various awareness programs and events by the NSS unit to alert the students about

Human values, Ethics, Environment and Gender awareness. The institute provides equal opportunities to boys and girls in all types of student activities organised. Special programs for girl students are arranged for achieving Women Empowerment.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	**No File Uploaded**

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

43

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	**No File Uploaded**

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

4111

File Description	Documents
List of students enrolled	View File
Any additional information	**No File Uploaded**

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

2513

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.vrsiddhartha.ac.in/feedback/
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following	A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.vrsiddhartha.ac.in/feedback/
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1420

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	[View File](#)

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

758

File Description	Documents
Any additional information	**No File Uploaded**
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Assessment Mechanism:

The slow and fast learners are identified through

1. **Diagnostic test, conducted at their entry level and**
2. **Continuous assessment and semester end examinations-those who got < 50% marks in continuous assessments and have one or more backlogs in semester end examinations are considered as slow learners. Those who got CGPA > 7.75 are considered as Fast-Learners.**

- **Measures to improve the performance of slow learners**

- **Bridge Classes - to fill the gap between the student knowledge and the current course requirement.**
- **Remedial Classes- to reach to the expected learning level.**

- **Counselling Sessions- conducted regularly and individual proctor dairies are maintained to record academics, extra and co-curricular activities.**
- **Expert lectures in personality development to facilitate better attitude, communication and stress management.**

- **Quality circles- involving fast-learners in special classes to motivate slow-learners and clarify their doubts.Measures are taken to prepare the fast learners to make them ready to higher levels of learning.**

Measures are taken to prepare the fast learners to make them ready to higher levels of learning.

Advanced Learners: Students getting CGPA > 7.75 are considered as Fast-Learners.

- **Choice Based Credit System (CBCS): Offered from second year onwards that enable Full time internships/ project works in industries.**
- **To concentrate on trainings with reference to innovations.**
- **Publish their projects in quality journals/ Scopus supported conferences.**
- **To participate industry driven competitions.**
- **To focus for startups and entrepreneurships.**
- **Preparing for competitive examinations**
- **Promoting for Self-Learning/MOOCs**
- **Preparing for placements aiming high end packages**
- **To participate in conferences/seminars, quiz competitions, paper/poster presentationsand global certifications.**

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	**Nil**

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
Nil	**5406**	**334**

File Description	Documents
Upload any additional information	[View File](#)

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

EXPERIENTIAL LEARNING ICT in Teaching-Learning:

Internships: The institute facilitates internships and industry projects through MOUs with the industries and premier institutions.

Collaborative Laboratories: The institute collaborated with SIEMENS, DASSAULT, IBM, ORACLE, CISCO, NI Academy etc. to train in industry relevant needs.

Industry Driven Competitions: Participation in competitions conducted by industries such as Code Vita, Hackthon and Hackerearth, Codechef, etc., at national/global level.

Field Visits and industries: to experience industry operations and their challenges.

MOODLE : Asynchronous teaching, group tasks, video lectures, PPTs, case studies, etc.

PARTICIPATIVE LEARNING

Workshops / Seminars: Participation in workshops/seminars on modern trends and technologies involving industry experts.

Group Tasks / Mock Interviews: conducted from second year onwards in soft skills and Mock interviews to improve confidence levels.

Model Development / Case studies: To apply theoretical knowledge & experience practical skills and competencies.

Field visits: To correlate the theoretical knowledge with practical and real applications.

PROBLEM SOLVING LEARNING

Open-ended problems in Laboratories: To develop feasible solutions in extraordinary manner using current technologies.

Innovative models: Take up real time problems and develop innovative products/models with novelty.

Term paper, Mini and Major Projects: Real-time/industry/society problems are given as group tasks which include experimentation, analysis, and design.

Individual/group assignments: tasks related to case studies, current technologies and industry needs are assigned for individual student / group of students to address and develop feasible solutions.

File Description	Documents
Upload any additional information	**No File Uploaded**
Link for additional Information	**Nil**

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

All classrooms are equipped with ICT enabled tools.

Students and faculty can access NPTEL Video Lessons, e-books and e- journals throughout the campus for Self learning courses. In addition, Faculty are preparing video lectures and made available in the college website for the benefit of the students.

Moodle is used for blended learning, flipped classroom and other e- learning projects.

To maintain digital platform and function smart, Learning Management System is introduced incorporating the following items

* **Course Details**
* **Student details**
* **Faculty details**
* **Academic assessments**
* **Course Materials**

The College uses LMS(MOODLE) as one of the best practices in teaching and learning. All departments adopted the system for enhancing the student learning experiences. Following are the some of the applications implemented:

* **Conduction of online exams**

- **Conduction of online class work and laboratory sessions Course delivery related instruction materials are made available to students**
- **Activity based learning is inculcated through LMS like quiz conduction, group activities, developing technical solutions to problem solving in laboratories, case studies etc.**
- **Video demonstrations, PPT are also uploaded in LMS to implement ICT based learning**
- **Value Added courses implementations with assessments are carried on through LMS**
- **Question banks, questions proposed in assignment exams are uploaded by faculty in LMS to sustain good academic performance**
- **Assignment submission links are provided for students to submit solutions within the specific targets**

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.vrsiddhartha.ac.in/e-content-development/
Upload any additional information	**No File Uploaded**

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

301

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

- **Programme-wise Academic Calendars are prepared specifically earmarking the semester-wise schedules.**
- **The calendars are prepared keeping the minimum number of**

working days duly taking the National & Public holidays, Festival breaks, Summer vacation, in addition to the College Fests, Training Programmes, Placement Activities etc into cognizance.

- The academic calendars are approved in Academic Council. The calendars are communicated through the webmail to all the relevant functionaries for adherence.
- Preparation of Course plan : Faculty prepare teaching plans as a part of their course files keeping the following points in view

Preparation of Course plan :

Respective Members of faculty prepare teaching plans as a part of their course files keeping the following points in view

- Syllabus content to be delivered Time allotment
- Teaching methodologies
- Assessment tools
- Contemporary developments
- Cognitive levels of learning
- MOODLE

Review and Monitoring :

- Course coordinators undertake an intense review in relevant courses
- Module coordinators take up a conceptual review related to delivery and assessment of different courses in tune with the respective modules
- Programme coordinators take up a comprehensive review

Adherence :

The institute strictly Adheres the academic calendar, except at unforeseen circumstances without prejudice to the overall deadlines and some of the important items as part of the academic calendar is permitted subjected to the approval in the Deans and HODs meeting chaired by the Principal.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	[View File](#)

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

334

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	**No File Uploaded**
Any additional information	**No File Uploaded**

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

158

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

3214

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	**No File Uploaded**

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

16

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	No File Uploaded
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Examination schedules are prepared by adhering to Institute Academic Calendar. Respective circulars will be circulated to conduct continuous examinations. Mini project and major project are reviewed at three stages.

The marks obtained are posted on CMS-VRSEC ONLINE and the hard copies of mark award lists are submitted to the exam branch for further scrutiny, record and storage.

All the pre-examination and post-examination tasks have been integrated with EMS services using BeeS examination tool. Right from notifying the examinations in the college website, fee payment of the students through payment gateway, preparing database of eligible candidates, pre-printed bar-coded OMR answer booklets, etc to post-examination tasks up to declaration and issue of marks memos, the college has been involving electronic processes.

Day wise/room wise/semester wise seating arrangement is prepared for all the examinations. Faculty are appointed as invigilators from different departments. The question paper for

the end semester exam is set by external faculty who taught the subject for at least three years drawn from the approved list of paper setters. Enough care is taken to ensure the standard, spread of the syllabus and mapping of COs and following BLOOMS taxonomy. Special squads with internal and external faculty, prompt actions by Malpractice enquiry committee against malpractices, if any, relevant concessions for the Physically Challenged students with minimum 40% of disability as per norms, etc are regular features.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	**Nil**

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

In multiple dimensions, the college provides disseminates COs, POs and PSOs to teachers and students

Communication to the teachers:

- POs and COs are developed for each courses involving the faculty of the department and are approved in the BOS meeting after thorough discussions.
- After accepted in department BOS meeting, these are approved in college Academic council meeting.
- After approval in Academic Council meeting, all POs and COs are disseminated in website, faculty and students

Communication to Students:

Manual Communication:

First year Induction Programme: Lecture-demos are organized under Induction Programme in which POs are presented to students.

Introduction of Course Outcomes: Respective COs are presented at the beginning of each course

Publication of Outcomes in the Curriculum Books:

COs and CO-PO mapping is placed in syllabus books. Multi-coloured boards depicting the POs are placed for wider awareness among students

Communication through Website: POs are presented in the college website (www.vrsiddhartha.ac.in)

COs are also published in the front page of department website.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	**No File Uploaded**
Link for additional Information	**Nil**

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Attainment of Outcomes:

- **The Program Outcomes (POs) are accomplished through curriculum.**
- **Every course is defined with Course Outcomes (COs) and is mapped to POs.**
- **Performance evaluation criteria is used for quantitative assessment of COs.**
- **Thus the attainment of COs provides an evidence towards attainment of POs.**

Methods for Assessment, Evaluation and Measurement of POs

Direct Assessment methods

Indirect Assessment methods

Direct Assessment methods: COs are assessed through Sessional & Assignment Examinations, Home Assignments and sem end theory and practical examinations. CO analysis is carried out by faculty for each course and documented in Faculty Course Assessment Report (FCAR). The contributions of COs are assessed in high, moderate and low levels, towards the attainment of POs.

Indirect Assessment Methods:

Course end survey: It is collected from the students at the end of every semester for all the courses for their satisfaction of COs.

Programme Exit survey: This survey taken from final year students at the completion of their B.Tech programme, which serve as supporting evidence for PO assessment

Alumni Survey : This survey is conducted annually through Google link or mail to Alumni towards PO attainment

Employer Survey: This survey is taken from the employer to measure the PO attainment

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	**Nil**

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

1350

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	[View File](#)
Upload any additional information	**No File Uploaded**
Paste link for the annual report	**Nil**

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://www.vrsiddhartha.ac.in/student-satisfaction-survey/

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Promotion of research is facilitated through diverse approaches such as incentives, Career Advancement Norms, and inclusion in the Annual Faculty Appraisal process. Detailed information about research promotion schemes and incentives is available on the website. Moreover, individual departments have special interest groups dedicated to working on specific thrust areas.

Additionally, there is a dedicated Entrepreneurship Development Cell(EDC) and Institute Innovation Council(IIC)that caters to the entrepreneurial needs of students.

R&D Highlights the Institute:

- Total R&D Grant received from SERB-DST, ISRO, NRSC, Postal department, IMEDS Global, etc. is Rs.220.73 Lakhs
- A Seed grant of Rs.16.66 Lakhs was provided for research during the year.
- Revenue generated from consultancy during the year was Rs.183.62 Lakhs.
- Research papers in Scopus database(Journals, Conference and Book chapters) are 600and Citiations are 1112.
- 46 Research capacity-building programs (Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship, etc.) were organized during the year.
- The total number of Faculty recognized as PhD guides is 108, out of which 10 faculty are recognized during the year.
- MoUs with institutions/organizations for training and research & development are 67.
- Rs. 10,76,887 as financial support and incentives for Research projects, Publications, filling patents, etc.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.vrsiddhartha.ac.in/wp-content /uploads/policy/research_policy.pdf
Any additional information	View File

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

16,66,867

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	View File

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

3

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

229.43

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

25

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.vrsiddhartha.ac.in/rd/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

108

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

7

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://www.vrsiddhartha.ac.in/rd/
Any additional information	View File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The Institute provides opportunities to young engineers interested in entrepreneurship to attend seminars and events targeted at building entrepreneurial skills, with an objective of self-employment. This will open gates for a new breed of technopreneurs and more avenues of employment opportunities and leading the nation towards industrial excellence and self-reliance.

- **All Engineering Depts. have Research centers recognized by affiliating University and IIC - Institute Innovation Council**
- **Established V R Siddhartha TBI foundationto promote a culture of innovation-based entrepreneurship, build competencies through practical, hands-on experiential learning, and empower entrepreneurs to launch successful ventures.**
- **Created Incubation centers in all engineering departments to nurture innovative ideas to transform them into successful Start-Ups.**

- **The Institute Technology Business Incubator (TBI) promotes innovation and entrepreneurship culture.**

Some of the Prominent Achievements

- **Highest performance rating to the IIC by the MIC**
- **Institute is approved in-principally as Host Institute (HI) for implementation of the Incubation component under the MSME Innovative Scheme (Under MSME Champion scheme) in the Meeting of 4th PMAC held on 26/06/2023 at New Delhi subject to fulfilling all conditions issued by O/o DC MSME from time to time on MIS Portal.**
- **NIRF Innovation ranking 51-100 in the year 2023**
- **Received 15 lakhs grant from MSME in the year 2022-23**
- **16 faculty members are trained as innovation ambassadors by the MIC**
- **Selected as a mentor Institute under the Mentor-Mentee scheme by the MIC**
- **Start-ups incubated: 16**
- **Innovation recognitions from prominent institutes: 17**
- **Total Innovation grants from prominent institutes in last three years: 1,54,46,520**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/institutions-innovation-council-iic/

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

58

File Description	Documents
Report of the events	[View File](#)
List of workshops/seminars conducted during the year	[View File](#)
Any additional information	**No File Uploaded**

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures	**A. All of the above**

implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

4

File Description	Documents
URL to the research page on HEI website	https://www.vrsiddhartha.ac.in/rd/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

289

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

220

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/rd/

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

1112

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

45

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	View File

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

1,78,16,091

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	View File
Any additional information	**No File Uploaded**

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

1318845

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	View File
List of facilities and staff available for undertaking consultancy	View File
Any additional information	**No File Uploaded**

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

NSS coordinates numerous outreach camps in the neighboring adopted villages, where volunteers engage in various activities addressing social issues. These activities encompass cleanliness drives, tree plantation, road safety initiatives, environmental awareness campaigns, women empowerment initiatives, promotion of national integrity, AIDS awareness

programs, blood donation camps, health check-up events, veterinary guidance sessions, farmers' meetings, and raising awareness about farmer suicides.

Specifically, nine activities are dedicated to Swachh Bharath, focusing on tasks such as removing plastic waste from roadsides and conducting tree plantation in villages and along roads. Additionally, five activities aim at environmental protection to reduce energy wastage and combat vehicular pollution.

Two major vaccination drives were organized on campus, benefiting 500 students, faculty, and non-teaching staff. Furthermore, 500 students and faculty actively participated in three blood donation drives and one blood donation awareness program conducted on the campus.

Nine health-related activities were undertaken, including initiatives such as early cancer detection in village populations, pulse-polio vaccination programs, and health and nutrition campaigns for girls.

Six calendar events of national importance, such as Independence Day, Youth Day, and Yoga Day, were organized with the participation of 690 students. Other activities focused on the rights of the girl child, emphasizing education, health, and nutrition. Initiatives also included the enrollment of new voters and discussions on the significance of this democratic process, as well as the distribution of books to underprivileged school children.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/nss/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

8

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

52

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

6548

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

202

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

67

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

The institution boasts exceptional infrastructure spanning 24.05 acres of land, featuring an instructional area of 27,271 sq.m and a total built-up area of 66,165 sq.m. It comprises 108 laboratories, 86 classrooms, 9 smart classrooms, 9 seminar halls, and an auditorium with a seating capacity of 600.

All classrooms are well-equipped with adequate lighting, proper ventilation, multimedia projectors, Wi-Fi, podiums, fans, lights, and glass boards. Smart classrooms feature LCD projectors with smart interactive boards, Wi-Fi, and audio and video facilities to enhance the effectiveness of the teaching-learning process.

Seminar halls are equipped with LCD projectors, whiteboard facilities, Wi-Fi, and audio and video capabilities. The laboratories are furnished with state-of-the-art facilities, ensuring regular maintenance, including system upkeep, antivirus updates, software updates, calibration, and servicing.

Beyond the standard curriculum labs, the college has established 23labs and Centers of Excellence (COEs) in collaboration with the industry, focusing on skill enhancement in advanced technologies over the last five years.

The entire campus is covered by mobility-aware Wi-Fi connectivity with abundant bandwidth. All computers are

seamlessly connected to the campus networks through a 1Gbps fiber optic backbone.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/green/

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The college encompasses 10 acres of land dedicated to play ground. The Department of Physical Education is well-equipped with facilities for both outdoor and indoor games. The institution proudly hosts inter-university zonal tournaments on campus.

To foster cultural engagement among students, cultural clubs have been established within the college. These clubs operate at both the department and institute levels, including Literary, Photography, and Music clubs at the institute level. The institute has appointed a cultural coordinator to oversee all cultural activities.

For Yoga activities, a 600-capacity auditorium is provided, and a Yoga course is offered as part of the curriculum. The college offers ample facilities for various sports, including Cricket, Football, Volleyball, Ball badminton, Kho-Kho, Tennicoit, Throw ball, and Basketball. There are two Cricket Net Practice arenas with Astro layer, as well as facilities for sports like long jump, high jump, shot put, disc throws, and a 400-meter eight-standard lane track.

The college dedicates 661.8 sq.m of built-up area for indoor games, featuring Table Tennis, Badminton, and Chess. Gymnasium facilities are available in the Physical Education Department and the women's hostel. Cardio exercise equipment, such as cross trainers and treadmills, are accessible in the Girls' hostel, which also features two outdoor badminton courts and a recreation room equipped with table tennis, carom boards, and chess.

The campus boys' hostel is equipped with volleyball and two badminton courts for recreational activities.

File Description	Documents
Geotagged pictures	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/physical-education/

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

95

File Description	Documents
Upload any additional information	[View File](#)
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	[View File](#)

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

948.18

File Description	Documents
Upload audited utilization statements	[View File](#)
Details of Expenditure, excluding salary, during the years	[View File](#)
Any additional information	**No File Uploaded**

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

The Library follows an open access system, encouraging the user to browse freely in the stock area. It is fully automated using the following Integrated Library Management System:

- **Name of the ILMS software: Libsys LSM**
- **Nature of automation (fully or partially):Fully**

- **Version:10**
- **Year of automation: 1995**
- **Online Public Access Catalogue +(OPAC): Open for all students and staff through remote access throughout the campus.**

Year

Up-gradation

Amount Spent Rs.

2023

Libsys (upgraded to Version 10)Cloud Services

1,77,000/-

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/library-home/

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources	**A. Any 4 or more of the above**

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	[View File](#)
Upload any additional information	[View File](#)

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

28,06,806

File Description	Documents
Audited statements of accounts	View File
Any additional information	View File
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

656

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	**No File Uploaded**

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

Internet Bandwidth Availability:

The institute ensures round-the-clock internet access with a bandwidth of 1 Gbps through redundant leased line connections.

Internet Service Providers:

1. **Reliance Jio Infocomm: 300 Mbps 1:1 leased line**
2. **TATA Tele Services: 700 Mbps 1:1 leased line**
3. **BSNL: 30 Mbps**

WiFi Coverage: There are 150 WiFi access points strategically placed across the campus, including the library, classrooms, labs, faculty cabins, seminar halls, and open areas. These access points are managed by two WiFi controllers to provide seamless wireless internet access to both students and faculty.

Internet Access in Various Areas: The entire campus, comprising labs, classrooms, corridors, faculty cabins, library,

department offices, seminar halls, conference halls, and hostels, is equipped with both wired and WiFi internet access.

Computers with Internet Access: There are 1600 computers with internet connectivity available on campus.

Campus Infrastructure: The campus features a fiber optic backbone with 1 Gbps connectivity, which can be upgraded to 10 Gbps.

Security Measures: The institute has implemented IPv4 subnets for all departments and configured department-level VLANs in network switches. The internet firewall, SOPHOS XG-450 Firewall with Full Guard Protection, manages base firewall, network protection, web protection, email protection, and web server protection operations. The firewall handles concurrent connections of 13,640,000 and new connections per second at 1,87,000.

Expenditure for Firewall Establishment: The institute invested Rs. 15 lakhs in 2020-21 and Rs. 18 lakhs in 2017-18 for the establishment of the firewall.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/internet-home/

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
5405	1635

File Description	Documents
Upload any additional information	[View File](#)

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	**No File Uploaded**

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	**A. All four of the above**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/e-content-development/
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

1344.64

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The institution has established procedures in accordance with the maintenance policy to ensure the upkeep of physical, academic, and support facilities.

Operating Procedure:

Any issues within a department are reported to the maintenance in-charge through mail. The maintenance in-charge assigns a skilled person or technician to address the reported problem. The assigned skilled person resolves the issue on-site if no additional materials are required. If additional materials are needed, a request is sent to the maintenance section through an indent. If the required materials are to be procured externally, approval is sought from the maintenance in-charge or the Head of the Institution. Arrangements are then made for the procurement of the necessary materials to resolve the problem.

Other Maintenance:

Annual inspections of electrical installations for maintenance and safety of electric supply are conducted by the Directorate of Electrical Safety, Government of Andhra Pradesh. Fire safety inspections are carried out annually by the AP State Disaster Response and Fire Service Department. Pest control maintenance is performed periodically. The Department of Mechanical Engineering oversees the maintenance of the central workshop facility, providing services such as custom fabrication of cabinets and desks, installation of doors and windows, and the creation of frames for displaying banners.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.vrsiddhartha.ac.in/wp-content/uploads/policy/maintenance_policy.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

3046

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	[View File]()
Upload any additional information	[View File]()

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

437

File Description	Documents
Upload any additional information	[View File]()
Institutional data in prescribed format	[View File]()

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	**A. All of the above**

File Description	Documents
Link to Institutional website	https://www.vrsiddhartha.ac.in/wp-content/uploads/2019/09/5.1.3.xlsx
Details of capability development and schemes	[View File]()
Any additional information	**No File Uploaded**

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

5395

File Description	Documents
Any additional information	**No File Uploaded**
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	[View File](#)

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	**A. All of the above**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	[View File](#)
Details of student grievances including sexual harassment and ragging cases	[View File](#)
Upload any additional information	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

1202

File Description	Documents
Self-attested list of students placed	[View File](#)
Upload any additional information	**No File Uploaded**

5.2.2 - Number of outgoing students progressing to higher education

89

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	**No File Uploaded**

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

201

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	**No File Uploaded**

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

41

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

The college involves the students who are primary stake holders to the utmost possible extent in various administrative bodies/committees. Students are involved in the following committees 1. Student Council 2. Internal Quality Assurance Cell (IQAC) 3.Department Advisory Boards (DAB) 4.Central

Library 5.Anti – Ragging Coordination committee 6.Internal Complaints Committee(ICC) 7.Canteen committee 8.Hostel mess and ambience 9.Student professional Chapters 10.Sports Committee 11.NSS Committee 12.Internal Committee 13.Women Welfare committee 14.Training & Placement Cell. It's not only for listening to voices of the students but also to make the main integral part of the very functioning of the units in varying degrees based on the kind of the functional units. In addition other following functional units, the college student council has been in place. Levels of student involvement:

- **Administrative planning**
- **Discipline regulatory Monitoring unit**
- **Functioning related to career oriented activities,**
- **college level Amenities Facilities**
- **Units of Co & Extracurricular planning execution.**

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	**Nil**

5.3.3 - Number of sports and cultural events / competitions organised by the institution

19

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	**No File Uploaded**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alumni Association of V.R. Siddhartha Engineering College was registered as a society named as VR Siddhartha Engineering College Old Students Association {VRSECOSA}. The Alumni have created a corpus fund of Rs. 4 Crores, the interest of which is being utilized for various uses such as scholarships to the

economically challenged students. Alumni Association initiated a Scholarship programme "SIDDHARTHA SAHAAYA". Under this programme, meritorious and economically poor students are identified and selected in the first year of their Engineering programme. Each student is awarded Rs. 15,000/- per year towards his/her living expenses and gets continued for four years of the programme. 139 Scholarships of Rs20.85 Lakhs were disbursed during the academic year 2022-23. About 26 Guest lectures were delivered by the alumni in the academic year 2022-23.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil

5.4.2 - Alumni's financial contribution during the year	E. <2 Lakhs

File Description	Documents
Upload any additional information	[View File](#)

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The vision and mission statements define the institute's distinctive characteristics in addressing the needs of stakeholders involved.

Management and Principal actively participate in the Governing Body to ensure the policy statements and action plans are aligned for attaining the mission of institute, disseminates the vision and mission to all stakeholders and involve them in forming the policy statements.

The principal frames the rules and regulations in consultation with Governing body and Academic council of the institution. He reviews the KPI outcomes from the implementation of action plans through meetings with various Statutory and non-Statutory committees and makes necessary changes in action plans if

required. The management takes review of quality policies and makes amendments in quality policies if required.

Deans take instructions from the principal, implement them, and provide feedback and suggestions to the principal. The HOD is responsible for content delivery, effective teaching and learning process, monitoring mentor system, up-gradation, and maintenance of centre of excellence, ensuring calibration and maintenances of equipment.

The senior professors, with assistance of faculty members, act as conveners of the non-statutory committees and assist the principal on routine administration and academic processes. Teachers play a proactive role in the academic and administrative activities of the institution.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.vrsiddhartha.ac.in/governing-body-minutes/

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The college practices participative management and decentralization in all activities with a balance between transparency and confidentiality. Institute has 4 statutory (Governing Body, Academic Council, Finance Committee, Boards of Studies), 3 Department level committees, 13 non statutory bodies and 12 other Institute level committees with defined roles and responsibilities ensure decentralization and participative management at every level.

Case Study: Examination

The teaching and non-teaching staff members are actively involved in smooth running of examination process.

- Senior Professor is appointed as a controller of examinations who monitors starting from the notification for semester end examinations, supplementary examinations, setting of question papers, evaluation of answer scripts, malpractice cases and till the

declaration of results.

- Controller of Examinations (CoE) is supported by another senior professor as Assistant Controller of Examinations who monitors the registration of students for end semester and supplementary examinations, seating plan for the conduct of examinations, allotment of invigilators, collection of the answer scripts at the examination section.
- Senior faculty members along with the external observer distribute the question papers to the examination halls, inspect the examination halls and monitor the collection and packing of answer booklets till their submission to the confidential section.
- Malpractices if any, they are referred to the Malpractice Enquiry Committee for investigation. The committee then recommends appropriate disciplinary action.

The non-teaching staff assist the CoE in question paper printing, seating arrangements, examination material preparation, spot valuation, documentation, issuing of transcripts, etc.

File Description	Documents
Upload strategic plan and deployment documents on the website	[View File](#)
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://www.vrsiddhartha.ac.in/institute-level-committees/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The college successfully achieved the targets set in strategic plan set in 2015-2020 and second Five year (2020-25) Strategic Plan has been framed keeping in view the changing educational scenario with three broad objectives with identified KPIs

Strategic Goals:

1. Research, Innovation & Professional Practice:

2. Graduation Outcomes: Teaching, Learning & Resources:

3. Comprehensive Student Development:

An Activity/Practice: Research, Innovation & Professional Practice

- **The five-year strategic plan was divided into year wise targets, 2020-21, 2021-22, 2022-23, 2023-24 and 2024-25.**
- **Every year targets were distributed to all departments of the institution, according to the strength of the faculty, qualification, and intellectual capability in research.**
- **Again, the HOD will divide the yearly targets and distributed to the faculty of the department.**
- **The IQAC will collect those targets, every year, in the form of "annual goals" at the beginning of the academic year and the achievements are collected back at the end of the academic year. ·**
- **The reasons for not achieving some targets are discussed and necessary initiatives are taken to achieve them.**
- **At the same time, the required facilities and manpower to achieve the above targets are also provided on the demand of the department.**
- **This is how, the institution is getting success for achieving the target of the five-year strategic plan.**

File Description	Documents
Strategic Plan and deployment documents on the website	[View File]()
Paste link for additional information	https://www.vrsiddhartha.ac.in/wp-content/uploads/2019/09/Strategeic-plan_2020-25.pdf
Upload any additional information	**No File Uploaded**

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

- **The college Organogram represents well-structured administrative setup with roles and responsibilities defined for various bodies.**
- **Service rules, various policies such as recruitment, promotion are available for the functional aspects of the**

Institution.

- **The web-based grievance redressal mechanism through the college website addresses systematically, impartially maintaining confidentiality.**
- **The administrative hierarchy of the institute with defined functions of various bodies, availability of service rules, recruitment and promotional policies, grievance redressal mechanism.**
- **Institute has various 4 statutory and 13 non statutory bodies with defined roles and responsibilities ensure transparency, participative management, and decentralization at every level. In addition, 12 Institute level committees and 3 Department Level Committees**
- **Policies for the functional aspects of the Institution: Research and Development Policy, Consultancy Policy, E-Governance Policy, Anti-Plagiarism Policy, Examination Procedures**
- **Anti-Ragging Policy, IPR Policy, Document Retention Policy, Conduct Rules for Students, Conduct Rules for Faculty, Recruitment Policy, Promotion Policy, Incentive Policy**

The Grievance Redressal Committee is constituted to consider all the individual grievances of students and staff. The students and faculty with a genuine grievance may approach the grievance redressal committee to submit his/her grievance in writing to the Convener, Grievance redressal committee of VRSEC. The web-based grievance redressal mechanism is also in place through the college website.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.vrsiddhartha.ac.in/organogram/
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://www.vrsiddhartha.ac.in/policies/

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination	**A. All of the above**

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The following are the welfare measures extended to the teaching and non-teaching staff of the Institute:

Teaching Staff:

- Health cards to all the employees to get treatment at Pinnamaneni Siddhartha Institute of Medical Sciences, Gannavaram (Sister concerned medical institution) at discounted prices. (For both teaching and non-Teaching staff)
- Employees Provident Fund (EPF) and Group savings linked insurance (GSLI)/ gratuity for all regularized teaching and non-teaching staff.
- Maternity Leave for female teaching and non-teaching staff.
- Half-pay medical leave for teaching and non-teaching staff members
- Special casual leaves for attending conferences and workshops.
- Study leaves for higher education and qualification improvement
- Financial support for Registration fees, Dearness allowance, Travel grants for faculty attending conferences and workshops.

Non-Teaching Staff:

- Siddhartha Kalapeetham scholarship is provided for children of non-teaching staff whose parental annual income is Rs.1 lakh.

- **In the event of the death of an employee in service, his/her dependant will be considered for employment on compassionate grounds, depending upon the merit of the case, limited to the cadre Junior Assistant, subject to the eligibility of the individual concerned and the availability of vacant posts.**
- **Employee Staff Insurance (ESI) for all the staff members having a salary of less than 21,000/- per month. Uniform (dress code) at free of cost to the class – IV employees.**
- **Loans at a low-interest rates through Employee's cooperative society**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

154

File Description	Documents
Upload any additional information	**No File Uploaded**
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	[View File](#)

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

78

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	[View File](#)
Upload any additional information	**No File Uploaded**

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

210

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	**No File Uploaded**

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

- **The college has mechanism of both internal and external audits for the financial activities carried out in the Institution every Year.**
- **Accounts department maintains financial accounts, prepares financial statements audited by external auditor and submits them to all the statutory bodies like AICTE, UGC and State Government as and when required.**
- **The institute maintains its accounts and auditing records since its inception. Considering the effective internal and external auditing mechanisms**

The college has both Internal and External audit system. Internal Audit: The Principal constitutes an Internal Audit Committee with three members. The audit is conducted on a Sampling basis to check the correctness of the financial transactions and statement affairs of the Institution. The Committee verifies Cashbook, Bank accounts, Ledgers, Bills,Vouchers, and statement of cash position and cash flow physically and conducts sample check on the heads of various accounts, balance dates, and postings.

External Audit:

M/S Rajeswar and Co., Vijayawada, have been auditors for the Institution from the past two decades. An annual external audit is conducted, and the reports are submitted to the management.

The Finance Committee ratifies these reports. With all statutory obligations duly complied, there were no major audit objections until the last audit. Audit of funds received from Government and Non-Government research funding agencies and Consultancy is duly done as per the guidelines of the funding agencies as and when required and submitted.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

5.46

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	View File

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

The institution has developed strategies for mobilizing resources and ensures transparency in financial management. The institute follows established procedures and processes for planning and allocation of financial resources. The income and expenditure of the institution are subjected to regular internal and external audits. The income and expenditure of the institution are subjected to regular internal and external audit.

Income: Tuition fee, research grants, consultancy, alumni funds, philanthropist funds and interest on bank deposits

Expenditure: Salaries and Benefits, Power and Fuel, Printing and Stationery, Postage and Telephones, Periodicals and magazines subscriptions journals, Affiliations and Renewals, Travelling and Conveyance, repairs, replacements, maintenance,

upkeep, advertisement, audit fee, taxes and licenses,
Miscellaneous, Depreciation, Furniture, Laboratory Equipment
and consumables, etc., Establishing Centres of excellence and
Industry Collaborative Labs. Library, R & D and incentives,
Skill Development and Innovation, Training & Placement,
Software procurement, up-gradation, and maintenance, Wi-Fi,
Internet & Networking Student Services- NCC, NSS, Sports,
Scholarships to merit and poor students.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	Nil

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The IQAC has contributed significantly for institutionalizing
the following quality assurance strategies and processes. Among
the various initiatives, few are listed here:

• Streamlining the Student projects emphasizing Paper
publications, Patents, Innovative model development & Start-
ups.

• Annual planning & Implementation on Execution of Extension
activities (NSS) in adopted villages focusing on technical
issues in particular and getting solutions by collaborating
with outside organizations.

• Annual planning & Implementation on Securing ample number of
National & State level awards.

• Implementation of Activity Calendar in addition to Academic
Calendar.

• Institutionalization of R&D Excellence Award Identification &
subsequent strengthening of one major thrust area of Research
in Emerging fields in every department by providing necessary
infrastructural facilities & identifying competent faculty, to

fulfill the "Make in India" and "Atmanirbhar Bharat".

· Revamp of "Continuous (Internal) assessment pattern".

· Streamlining – EPICS. The Projects should confine to societal problems with innovative solutions and reach targeted users.

· Executing Industry / Institute (IITs/NITs) collaborative joint venture projects in all the departments.

· Refresher Training program on OBE (Focusing on Higher order knowledge levels, defining appropriate COs & setting higher PO attainment targets).

· Annual R& D reviews with reference to strategic plan.

Incremental improvements: The institution was accredited with A+ grade (2nd cycle) in the month of August 2021. Hence it is too early to declare the improvements due to post accreditation quality initiatives taken by the IQAC.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.vrsiddhartha.ac.in/iqac-meetings/

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

- IQAC adopts well-defined audit mechanism to reviewTeaching-Learning process, learning outcomes of the courses on a regular basis by the experts from reputed institute such as NIT and NITs
- ISO audit mechanism so that all the processes, structures & methodologies of operations are systematised and streamlined for effective implementation
- Based on the SWOT report, a benchmarking exercise is made to prepare action plan such as conducting pedagogy programmes, curriculum revision, reforms in examination process

The institution periodically reviews the teaching learning process for the attainment of outcomes. It also reviews quality

assurance policies, mechanisms and outcomes. This Structured feedback is analyzed and appropriate follow action is taken to meet the standards.

Case study:

IQAC of VRSEC is adopting a well-defined review mechanism of Teaching-Learning process through

(i) Performance Based Appraisal System (PBAS) and online feedback Mechanism and

(ii) Academic & ISO audits

Review through PBAS All the faculty are reviewed through PBAS for the parameters Curricular, Co-Curricular, Research, and Administrative & Extra-curricular activities. Where, maintenance of course file for every course by all faculty is mandatory. Teaching & learning processes are reviewed wrt usage of innovative teaching methodologies. Design of new Experiments related to course outcomes, student counselling, student feedback, project guidance, remedial, bridge, content beyond syllabus, etc.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.vrsiddhartha.ac.in/iqac-meetings/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)	A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.vrsiddhartha.ac.in/annual-reports-aqar/
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

Gender equity programs at Velagapudi Ramakrishna Siddhartha Engineering College typically aim to promote equal opportunities and support for all genders.

Some common initiatives and strategies include:

Awareness and Education: Offering workshops, seminars, and courses that raise awareness about gender bias and diversity issues in engineering, fostering a more inclusive environment.

Support Networks: Establishing support networks and clubs for students, faculty, and staff, such as women in engineering groups, to provide a sense of belonging and opportunities for networking.

Diverse Faculty and Staff: Encouraging the hiring and promotion of diverse faculty and staff members, as role models and mentors.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	**Nil**

7.1.2 - The Institution has facilities for	**A. Any 4 or All of the above**

alternate sources of energy and energy conservation: Solar energy   Biogas plant Wheeling to the Grid   Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

File Description	Documents
Geotagged Photographs	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

The following is the comprehensive waste management in the campus.

- **Awareness among students through student clubs: Awareness on collection, segregation and disposal has been created through students clubs, since the participation of students and faculty play a key role for effective solid waste management in the campus**
- **Collection of Solid waste: Installed separate bins for degradable (organic) and non-degradable (plastic bottles, covers, packing, cans, etc) waste collection across the campus on daily basis.**
- **Segregation of Solid waste: The degradable waste matter and non-degradable waste are separated and degradable waste is transported to the compost plant. While non-degradable waste such as plastics is handover to local panchayat.**
- **Composting: A compost plant was established in the campus to decompose degradable waste into organic manure. Aerobic composting method is being used for making the manure.**
- **Waste Recycling: The manure made in the compost plant is used for the campus plantation and greenery.**
- **E-Waste Management: Old computers are donated to the local schools, where they are used to demonstrate to show the components of computer, disassembling - assembling as well.**
- **Awareness Campaigns: Conducted awareness programs and workshops to educate the college community about waste reduction, recycling, and the environmental impact.**
- **Reduce Single-Use Plastics: Encouraged the use of reusable items like glass/steel water bottles, jute bags**

and lunch containers to reduce plastic waste.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	**No File Uploaded**

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

B. Any 3 of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

A. Any 4 or All of the above

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions/awards** 5. **Beyond the campus environmental promotional activities**	**B. Any 3 of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	[View File](#)
Certification by the auditing agency	[View File](#)
Certificates of the awards received	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.	**A. Any 4 or all of the above**

File Description	Documents
Geotagged photographs / videos of facilities	[View File](#)
Policy documents and brochures on the support to be provided	[View File](#)
Details of the software procured for providing assistance	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

- **Inclusive Engineering College Environment**
- **Accessible Facilities: Ensure that the campus and facilities are physically accessible to all, including individuals with disabilities. This includes ramps, elevators, and accessible restrooms.**
- **Diverse Faculty and Staff: Recruit and retain a diverse faculty and staff. Representation matters, and having diverse role models can inspire students from all backgrounds.**
- **Cultural Competence Training: Provide training to faculty, staff, and students on cultural competence and unconscious bias. This helps create a more respectful and understanding community.**
- **Student Organizations: Support and promote student organizations that celebrate diversity and create safe spaces for underrepresented groups.**
- **Inclusive Events: Organize events, seminars, and workshops that focus on diversity and inclusion topics. These can raise awareness and encourage dialogue.**
- **Affinity Groups: Establish affinity groups or clubs for students with shared identities or interests to foster a sense of belonging.**
- **Community Engagement: Encourage students to engage with the broader community through outreach and service projects, promoting social responsibility and empathy.**
- **Zero Tolerance for Discrimination: Enforce strict policies against discrimination, harassment, and bullying. Ensure that incidents are promptly investigated and addressed.**

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View File](#)

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

Sensitizing students and employees of an engineering college to their constitutional obligations is an important educational and ethical endeavor. Here are some steps that can be taken to achieve this:

Incorporate Constitutional Education: Integrate constitutional education into the curriculum. Include subjects or modules that cover the constitution, fundamental rights, and duties of citizens.

Guest Lectures and Workshops: Organize guest lectures and workshops by legal experts, constitutional scholars, or activists to discuss the importance of constitutional obligations.

Constitution Day Celebrations: Celebrate Constitution Day (26th November in India) with special events, speeches, and activities to raise awareness about the constitution.

Create Awareness Campaigns: Develop awareness campaigns through posters, newsletters, or social media platforms to highlight key constitutional principles and obligations.

Volunteer and Community Engagement: Encourage students and employees to participate in community service and volunteer activities that promote civic responsibility.

Code of Conduct: Develop a code of conduct for the college that aligns with constitutional principles, and ensure that it is widely disseminated and adhered to.

Partnerships: Collaborate with legal organizations, NGOs, or government agencies that can offer support and resources for constitutional education initiatives.

By implementing these strategies, an engineering college can create a culture of awareness, respect, and adherence to constitutional obligations among its students and employees

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized	**A. All of the above**

File Description	Documents
Code of Ethics - policy document	[View File](#)
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The College is celebrating the National and International days, events and festivals throughout the year and it is an integral part of learning and building a strong cultural belief in students.

The College celebrates National Festivals such as, Independence

Day on 15th August and Republic Day on 26th January with splendour by hoisting the national tri colour flag in the college, where staff and students pay tribute to all freedom fighters.

Teacher's day is celebrated to promote the values and principles of a true teacher on 5th September, the birth anniversary of Dr. Sarvepalli Radhakrishnan.

The birthday of Mahatma Gandhi on 2nd October is commemorated as Swachhta Diwas. Swachh Bharat Abhiyan is commemorated in order to honour Mahatma Gandhi vision of clean India.

The National Innovation Day is celebrated commemorating the birth anniversary of former President of India, Bharat Ratna APJ Abdul Kalam on 15th October 2021.

Azad Day and National Education Day are held to mark Maulana Abul Kalam Azad's birth anniversary. Various literary, cultural and sports competitions are held during Azad Day celebrations.

The birth anniversary of Sardar Vallabhbhai Patel on 31st October is celebrated as National Unity Day and run for Unity is organized. Thus, the students are blessed with an opportunity to have an insight in the event and struggle and sacrifice, through these celebrations.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

Title of the Best Practice: Student Research Publications

Student Research Publications:

The institute is encouraging both UG and PG students to publish research papers in Scopus-indexed Journals and Conferences through their academic projects to inculcate research within the student community.

Objective of the Best Practice:

- Coordinate the development and publication of research papersdesigned primarily for the benefit of students.
- Provide students from diverse backgrounds, fields of study, classifications, etc., the opportunity to supplement classroom learning by gaining hands-on experience in publication production, enhancing journalistic abilities, and developing leadership skills.
- To motivate the students to gain and exchange the research knowledge by participating in various international conferences organized by reputed institutes.

The Context:

The rapid technological advancements in the academic and research environment of higher educational institutions demand multidimensional participation of students. Industry is also looking for the research potential among the students while coming to the placement drives. The students who form project groups, which are mentored by the faculty, are encouraged to publish the outcome of the project as a research publication.

The Practice:

The student Research publications are encouraged with effect from VR20 Academic Regulations and take into practice vibrantly with a major thrust starting from the academic year 2020- 2021.

Evidence of success:

List of student publications for the Academic Year 2022 - 2023.

S. No.

Name of the Department

SCI Journals

Scopus Indexed Journals

International Conferences

Book chapters

Total

1

CE

03

27

30

2

CSE

02

15

110

127

3

ECE

02

02

83

87

4

EEE

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33

07

40

6

IT

02

72

25

99

7

ME

04

28

32

File Description	Documents
Best practices in the Institutional website	https://www.vrsiddhartha.ac.in/wp-content/uploads/2019/09/Best-pritice.pdf
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

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.

The institute has a distinction of establishing several Centers of Excellence (CoEs) and Industry Collaborative Laboratories for training, skill upgradation and placement of students to realize the objectives of outcome based education. The institute has established 4 Centers of Excellence (CoE) and 23 Industry Collaborative laboratories and the details of laboratories are described below

Centres of Excellence (CoE):

1. 3D-Concrete Printing CoE
2. SIEMENS CoE
3. CoE in COMPOSITES
4. TIFAC (Technology Information, Forecasting and Assessment Council) CORE-DST:

Industry Collaborative Laboratories:

1. CISCO NETWORKING ACADEMY:
2. IBM SOFTWARE LAB FOR EMERGING TECHNOLOGIES:
3. DASSAULT SYSTEMS:
4. ORACLE CORPORATION:
5. APPLE AUTHORIZED TRAING CENTER FOR EDUCATION (AATCE):
6. VIDEO ANALYTICS RESEARCH LAB:
7. ANBLICKS IGNITE CENTER:

File Description	Documents
Appropriate link in the institutional website	https://www.vrsiddhartha.ac.in/wp-content/uploads/2019/09/Institutional-Distinctiveness.pdf
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

- Attention on improving Granting of Patents in proportion to publishing.
- Academic Bank of Credits – Implementation
- Impact of Academic Audit on expected outcomes, do the departments really achieving what they are expecting – A Review.
- Creating & maintaining student's tempo required for subsequent years, from the 1st year
- Institutionalization of YouTube channel at Institute level.
- Implementation of UTSAH (Undertaking Transformative Strategies and Actions in Higher Education) portal.
- Promotion of Inter-disciplinary Research among all departments
- Departmental R&D Reviews
- NAAC reforms in Assessment and Accreditation -2024