



YEARLY STATUS REPORT - 2021-2022

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/AQAR-2020-21-submitted-report.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
V R Siddhartha Engineering College	Margdarshan Scheme	AICTE	13/06/2018	2500000
V R Siddhartha Engineering College	SIRO - Scientific & Industrial Research Organization	DSIR, MST, GoI	01/01/2017	Nil

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 **300000**

11. Significant contributions made by IQAC during the current year (maximum five bullets)

Five-Year (2020-25) Plan & Strategy: IQAC prepared a Strategic plan considering the four major goals. 1 Graduation Outcomes: Teaching, Learning & Resources, 2. Comprehensive Student Development, 3. Research, Innovation & Professional Practice, and 4. Reputation / Recognition of the Institution, with the intention of ? Curriculum design to meet the emerging needs of the industry and society ? Knowledge up-gradation & skill development through continuing

education programs and industry institute interaction. ?
Employability with high packages in reputed Indian and Global
Companies and improvement in Higher studies. ? Encouragement of
students to participate in outreach programs and techno-cultural
activities at the National Level. ? Promotion of R&D culture -
quality publications & citations, Funded projects & consultancy in
all depts. and ? Promotion of Innovations, Patents & Start-ups.

Road map to Strategic Plan & annual targets to departments: The IQAC
also set a Road map to execute the proposed Five years (2020-25)
strategic plan, where yearly benchmarks were given to departments
for focusing their attention to achieve those targets. Annual
Departmental Bench Marks: Annual targets were set to the departments
wrt i) Graduation Outcomes: Teaching, Learning & Resources; ii)
Comprehensive Student Development and iii) Research, Innovation &
Professional Practice. While setting the targets for departments,
Faculty number, their qualification & intellectual capacity are
taken into consideration. The targets were communicated to all
departments and faculty. Further, every year at the beginning of the
academic year the set annual targets are reviewed, by collecting
achieved annual goals & academic audits, by IQAC for their
achievement and the lapses for not achieving the targets are also
analyzed and necessary steps are initiated. Hostel accommodation -
Present status & Expansion: The available hostel facility for girl
students is 657 beds (Old Block -120 beds; Krishna Block -189 beds;
Godavari Block - 153 beds and Kaveri Block - 195 beds on campus).
Which is adequate for all the aspirants. For Boys, the Management
completed the construction of the New block with a capacity of 418
beds. The existing hostel capacity is 100 beds. A total capacity of
518 beds is available against the total demand of 500 students. Thus
the Supply - demand ratio is more than 100%.

Sensor-based energy conservation and Energy Audit: IQAC proposed i)
Sensor-based energy conservation and ii) Energy Audit in addition to
the Solar energy generation in the campus as a further step of
energy conservation. Implementation of 'Sensor based energy
conservation' was initiated on the campus with campus street
lighting by adopting Astronomical Clock. Every day based on sunset
time street lights on the campus will be switched ON and based on
the sunrise time of the day they will be switched OFF automatically.
Approximately 35% of energy is being saved for street lighting,
because of the above initiation. IQAC proposed to develop i) a
sensor-based automation in one of the seminar halls on the campus
and ii) a density (people) based automation system to switch ON and
Switch OFF of electrical appliances, as a further step of energy
conservation. Energy Audit: In recent times it has been observed

that the electrical load in the campus is unbalanced, which may cause the neutral to carry more current. To avoid this, it is necessary to bring our system as more balanced. For this IQAC has proposed to have an energy audit of our campus by an external agency every year. This audit will also help us in terms of energy conservation.

Planning of Cultural events & Sports to be organized and Identification & promotion of students for State & National level competitions, Awards: With reference to the above item, the IQAC directed the Physical Director on Sports & Games and Cultural Coordinator on Cultural activities - Planning of activities to be organized in the campus; Identification and promotion of the students to participate at University, State, National/ International level competitions; submit the data of participation at University, State, National/ International level competitions & awards won, to IQAC, every year. Further, It is proposed to review the progress wrt representation to State & National level competitions at the end of each semester by the Sports & games committee and a report is submitted to IQAC. Regular training to support staff (Technical & Non-Technical/ Admin. Staff): It is proposed with the Intention - Proper maintenance of equipment; pursuing jobs in a better way; handling the ever-changing software and receiving the customers in a better way at reception counters / Admin. Blocks. Guidelines are also proposed wrt the Planning & Schedule of training, areas of training for Technical & Administrative staff and Report submission to IQAC. Industrial Training to faculty: In professional education, practical tint in every aspect of teaching-Learning is very important. To make classroom teaching practical and more effective, to update them with modern industrial trends and needs and to upgrade the course content as per the Industry requirement, the IQAC made the above activity mandatory in all departments. The Dean - Industry Relations in association with Heads of the Departments will plan for Industrial Trainings at the beginning of Academic Year (AY) and will submit report to IQAC at the end of the AY. Streamlining the Student projects for emphasizing Paper publications, Patents, Innovative models development & Start-ups: To meet the targets set in Strategic Plan (2020-25), the IQAC has focused on Student Projects to publish them as research articles / patents / Innovative models. In this connection All the heads of departments are directed to encourage their students and faculty to publish papers from their projects either in Scopus indexed journals or Scopus supported conferences / WoS. IQAC advised the departments for better quality of Student Projects by means of necessary support, proper assessment and appreciation. The motivational practices existing in the Institution

and Guidelines for minimum number of papers to be published in a department in a year were presented. Similarly, HODs are requested to encourage their students to develop Innovative models and file patents.

i) Execution of Extension activities (NSS) in adopted villages focusing on technical issues in particular and getting solutions with collaborations of outside organizations, and annual planning & Implementation. ii) Securing ample number of National & State level awards. IQAC suggested two meetings in a year, one at the beginning of academic year to plan the Extension activities and other at the end of the academic year to review the outcomes, instead of one meeting which is in practice. IQAC requested the NSS wing to identify the local problems in adopted villages and put more focus on technical issues besides routine extension activities, preferably with Collaborations to change their living standards. IQAC felt that chances of securing awards may be more when meaningful solutions are obtained with collaborations to Technical problems. IQAC also directed the NSS wing to do the Green campus extension activities in line with 'AICTE - Clean and Green Campus Award', as per the guidelines of 'Unnat Bharat Abhayan' and AP Urban Greening and Beautification Corporation certification. In addition to the above, IQAC continuously monitoring and assessing the parameters for better NIRF ranking, related to • Strategic Plan • Academic audit • Modifications in PBAS • Seed grants for research work and other support to faculty & students • Incentives for Research outcomes • Faculty feedback collection • Pedagogical Trainings to newly joined faculty & faculty with poor feedback • Annual goals from departments & their achievements • Departmental performance

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
Implementation of Activity Calendar in addition to Academic Calendar	Activity calendars help the academic and administrative officers & all faculties to work effectively for smooth functioning of the departments and institution as whole. This is in addition to academic calendar.
Institutionalization of R & D Excellence award	The R & D award boosts the research environment by encouraging the faculty. At the same time, it motivates the other faculty in the same direction.
Identification of one or two major thrust areas of research in emerging fields to fulfil "Make in India" and "Atmanirbhar Bharat" - subsequent strengthening by providing necessary infrastructural facilities & identifying competent faculty	To strengthen every department in a particular research area.
Industry / Institute (IIT's) collaborative joint venture projects across all the disciplines	? Application of theoretical knowledge ? Gaining real life experience ? Greater resource generation ? Improvement in quality of faculty ? Better placement of students ? Better utilization of Industry expertise ? Identification of Research of Industrial importance
Revamp of 'Continuous / Internal Assessment pattern'.	To meet the changing educational scenario and assessment as per the norms of NBA
Attention & Mechanism on 'Granting' of patents	To improve the number of Granting of patents at par with patent publications.
Skill development / Training /	To enhance the skills of both

Certification courses to faculty & supporting staff for consultancy.	faculty and supporting staff in consultancy and to meet the requirement of AQAR
Attention - EPICS projects confining to societal problems with innovative solutions	? To Streamline the EPICS projects to address societal problems in better manner. ? Further to get more number of quality publications / Innovative models.
Training programs on OBE - Focusing on Higher order knowledge levels, defining appropriate COs & enhancing PO attainment targets.	? To formalize appropriate COs & setting next levels of PO attainment targets ? For better practice of OBE

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

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Governing body	17/12/2022

14. Was the institutional data submitted to AISHE ? Yes

- Year

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
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Identification of one or two major thrust areas of research in emerging fields to fulfil "Make in India" and "Atmanirbhar Bharat" - subsequent strengthening by	To strengthen every department in a particular research area.

providing necessary infrastructural facilities & identifying competent faculty	
Industry / Institute (IIT's) collaborative joint venture projects across all the disciplines	? Application of theoretical knowledge ? Gaining real life experience ? Greater resource generation ? Improvement in quality of faculty ? Better placement of students ? Better utilization of Industry expertise ? Identification of Research of Industrial importance
Revamp of 'Continuous / Internal Assessment pattern'.	To meet the changing educational scenario and assessment as per the norms of NBA
Attention & Mechanism on 'Granting' of patents	To improve the number of Granting of patents at par with patent publications.
Skill development / Training / Certification courses to faculty & supporting staff for consultancy.	To enhance the skills of both faculty and supporting staff in consultancy and to meet the requirement of AQAR
Attention - EPICS projects confining to societal problems with innovative solutions	? To Streamline the EPICS projects to address societal problems in better manner. ? Further to get more number of quality publications / Innovative models.
Training programs on OBE - Focusing on Higher order knowledge levels, defining appropriate COs & enhancing PO attainment targets.	? To formalize appropriate COs & setting next levels of PO attainment targets ? For better practice of OBE
13. Was the AQAR placed before the statutory body?	Yes
<ul style="list-style-type: none"> Name of the statutory body 	

Name of the statutory body	Date of meeting(s)
Governing body	17/12/2022
14. Was the institutional data submitted to AISHE ?	Yes
<ul style="list-style-type: none"> • Year 	
Year	Date of Submission
2020-21	15/02/2022
15. Multidisciplinary / interdisciplinary	
<p>To promote Multidisciplinary/interdisciplinary learning the students are given an option to choose the advanced course and inter disciplinary courses through the Honor and Minor curriculum framework.</p> <p>Curricular Framework for Honors Program</p> <ol style="list-style-type: none"> 1. Students of a Department/Discipline are eligible to opt for Honors Program offered by the same Department/Discipline. 2. A student shall be permitted to register for Honors program at the beginning of 4th semester provided that the student must have acquired ? 08 CGPA without backlogs upto end of 2nd semester without any backlogs. If a student fails to score the required ? 08 CGPA without backlogs, his/her registration for Honors Program stands cancelled and he/she shall continue with the regular Program. 3. Students can select the additional and advanced courses from their respective branch in which they are pursuing the degree and get an honors degree in the same. e.g. If a Mechanical Engineering student completes the selected advanced courses from same branch under this scheme, he/she will be awarded B.Tech. (Honors) in Mechanical Engineering. 4. In addition to fulfilling all the requisites of a Regular B.Tech Program, a student shall earn 20 additional credits to be eligible for the award of B. Tech (Honors) degree. This is in addition to the credits essential for obtaining the Under Graduate Degree in the Discipline (i.e. 160 credits). 	

5. Honors must be completed simultaneously with a major degree program without exceeding 8 credits per semester. A student cannot earn Honors after he/she has already earned bachelor's degree.

Curricular Framework for Minor Program:

1. a) Students who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering may opt for additional courses in minor specialization groups offered by a department other than their parent department. For example, If Mechanical Engineering student selects subjects from Civil Engineering under this scheme, he/she will get Major degree of Mechanical Engineering with minor degree of Civil Engineering

b) Student can also opt for Industry relevant tracks of any branch to obtain the Minor Degree, for example, a B.Tech Mechanical student can opt for the industry relevant tracks like Data Mining track, IOT track, Machine learning track etc.

2. The BOS concerned shall identify as many tracks as possible in the areas of emerging technologies and industrial relevance / demand. For example, the minor tracks can be the fundamental courses in CSE, ECE, EEE, CE, ME etc or industry tracks such as Artificial Intelligence (AI), Machine Learning (ML), Data Science (DS), Robotics, Electric vehicles, Robotics, VLSI etc.

3. There shall be no limit on the number of programs offered under Minor. The University/Institution can offer minor programs in emerging technologies based on expertise in the respective departments or can explore the possibility of collaborating with the relevant industries/agencies in offering the program.

4. A student shall be permitted to register for Minors program at the beginning of 4th semester subject to a maximum of two additional courses per semester, provided that the student must have acquired ≥ 7.75 CGPA (Cumulative Grade point average) up to the end of 2nd semester without any history of backlogs. It is expected that the 3rd semester results may be announced after the commencement of the 4th semester. If a student fails to acquire a minimum of 7.75 CGPA up to 3rd semester or failed in any of the courses, his registration for Minors program shall stand cancelled. An CGPA of 7.75 has to be maintained in the subsequent semesters without any backlog in order to keep the Minors

registration active.

5. A student shall earn additional 20 credits in the specified area to be eligible for the award of B. Tech degree with Minor. This is in addition to the credits essential for obtaining the Under Graduate Degree in Major Discipline (i.e. 160 credits).

6. A committee should be formed at the level of department to evaluate the grades/marks given by external agencies to a student which are approved by concerned BoS. Upon completion of courses the departmental committee should convert the obtained grades/marks to the maximum marks assigned to that course. The controller of examinations can take a decision on such conversions and may give appropriate grades.

7. In case a student fails to meet the CGPA requirement for B.Tech degree with Minor at any point after registration, he/she will be dropped from the list of students eligible for degree with Minors and they will receive B. Tech degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.

8. Minor must be completed simultaneously with a major degree program without exceeding 8 credits per semester. A student cannot earn the Minor after he/she has already earned bachelor's degree

16.Academic bank of credits (ABC):

- **Credit Structure:** A typical Credit Structure for course work (B.Tech. Program) based on the above definition is given below
Assigning of Credits: 1 Hr. Lecture (L) per week - 1 credit; 1 Hr. Tutorial (T) per week - 1 credit; 1 Hr. Practical (P) per week - 0.5 credits.
- **Semester Course Load:** The average course load shall be 20 credits per semester with its minimum and maximum limits being 12 and 23 credits. However, the total number of credits at the end of the 4th and 6th semesters shall be 82 and 125 respectively.
- **Conditions for Promotion:** A student shall be eligible for promotion to V / VII Semester of B. Tech program, if he/she acquires the minimum number of credits as given below.
Minimum requirement of credits for admission into V Semester is 41 out of 82 and admission into VII is 62 out of 125.
- **Students detained for lack of Credits:**

1. Students who are already detained for want of credits shall be promoted to V Semester if he/she fulfils the credit requirements (41 credits) from all the regular and supplementary examinations held up to IV Semester till the commencement of next academic year.
 2. Students who are already detained for want of credits shall be promoted to VII Semester if he/she fulfils the credit requirements (62 credits- regular students) from all the regular and supplementary examinations held up to VI Semester till the commencement of next academic year.
- Finally, for obtaining the Degree one has to acquire 160 credits.

17.Skill development:

- For skill-oriented/ advanced skill courses, Two practical hours shall be allotted as per the decision of concerned BOS. There shall be Three skill-oriented courses from the same domain or inter-discipline and shall be completed in III/IV/V semesters.
- A pool of interdisciplinary job-oriented skill courses shall be designed by a Board of studies by the participating departments/disciplines and the syllabus along with the prerequisites shall be prepared for each of the laboratory infrastructure requirements. The list of such courses shall be included in the curriculum structure of each branch of Engineering, so as to enable the student to choose from the list.
- The student shall be given an option to choose either the skill courses being offered by the college or to choose a certificate course being provided by industries / Professional bodies/APSSDC or any other accredited bodies as approved by the concerned BoS.
- The Board of studies of the concerned discipline of Engineering shall review the skill advanced courses being offered by eligible external agencies and prepare a fresh list every year incorporating the latest courses based on industrial demand.
- If a student chooses to take a Certificate Course offered by industries/Professional bodies/APSSDC or any other accredited bodies, in lieu of the advanced skill course offered by the Department, the credits shall be awarded to the student upon producing the Course Completion Certificate from the agency/professional bodies as approved by the Board of studies.

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

Not Applicable

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

The Institution practices OBE since 2013, one of the very few colleges in the country with well-designed industry relevant flexible curriculum and defined COs, POs and PSOs for each course as per the guidelines of NBA. UG programmes (CE, IT, CSE, ECE, EEE, ME) have accreditation since 2014/15 and PG programmes (CSE, CAD/CAM, ECE- signal Processing, CE- Structural Engineering and EEE-Power System) were accredited in 2015.

The Teaching-Learning process adopts different methods such as experiential learning, participative learning and problem solving methodologies utilizing ICT facilities, LMS and e-resources. Multiple student centric pedagogical approaches like flipped classroom, case-based instruction, project-based learning, experiential learning, group discussions, brainstorming, role plays, field-based learning like visits to industrial units, research labs, etc. are being followed for active involvement of learners to achieve the pre-defined goals.

Blooms taxonomy is followed in the preparation of the lesson plan, assessment and evaluation. Attainment of COs, POs and PSOs are measured in every semester using direct and indirect assessment tools. The student performance is measured, corresponding to higher levels of Taxonomy, through the attainment level of learning outcomes in every programme and appropriate improvement measures are incorporated in content delivery, assessment and evaluation for the accomplishment of better skills and competencies.

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 institution is disseminating POs, PSOs and COs of all programmes for all stakeholders across the institution through display boards, institute website and syllabus books.

20.Distance education/online education:	
Not Applicable	
Extended Profile	
1.Programme	
1.1 Number of programmes offered during the year:	19
File Description	Documents
Institutional Data in Prescribed Format	View File
2.Student	
2.1 Total number of students during the year:	5302
File Description	Documents
Institutional data in Prescribed format	View File
2.2 Number of outgoing / final year students during the year:	1254
File Description	Documents
Institutional Data in Prescribed Format	View File
2.3 Number of students who appeared for the examinations conducted by the institution during the year:	10499
File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1 Number of courses in all programmes during the year:	728

File Description	Documents
Institutional Data in Prescribed Format	View File
3.2 Number of full-time teachers during the year:	313
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3 Number of sanctioned posts for the year:	28
4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	722
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):	1206.4

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 stakeholders 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

7

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

694

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	No File Uploaded
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

56

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

19

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**39**

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**3542**

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**1019**

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/wp-content/uploads/2019/09/iqacfeedbackreport_2021-22.pdf
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/wp-content/uploads/2019/09/iqacfeedbackreport_2021-22.pdf
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

1251

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)

783

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.

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 presentations and 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
01/07/2021	5302	313

File Description	Documents
Upload any additional information	No File Uploaded

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

294

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

313

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	View File
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

145

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	No File Uploaded

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

3184

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

15

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	View File
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

1416

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	https://www.vrsiddhartha.ac.in/wp-content/uploads/2019/09/46th_annual_report_13042023.pdf

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

- R & D policy is in place to promote faculty and students for Research and Development.
- About 30 computing systems were procured for research, with

a configuration of HP PRO ONE 600 G5 21.5 inches ALL IN ONE Desktops - INTEL CORE i7 9th Generation, 1TB HDD, 16 GB DDR4 RAM, Integrated Full HD 1080p Webcam, AMD Radeon 530 with 2 GB Graphic Card worth of Rs.18 Lakhs.

- A Seed grant of Rs.5,94,083/- Lakhs was provided for research during the year.
- 46 Research capacity building programs (Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship, etc.) were organized during the year.
- Total number of Faculty recognized as PhD guides are 88, out of which 11 faculty are recognized during the year.
- No. of Collaborative activities during the year for research, internship, on-job training, project work is 123.
- MoUs with institution / organizations for training and research & development are 73.
- Rs. 10,76,887as financial support & Incentives for Research projects, Publications, filling patents, etc.
- Promotion for Quality student Projects and publish their projects in quality journals / Scopus supported conferences.
- One faculty was awarded with Post-Doctoral fellowship & two faculty are pursuing their Post-Doctoral during the year.
- Total R&D Grant received from SERB-DST, ISRO, NRSC, Postal department, IMEDS Global, etc. is Rs.1,02,65,032/-
- Research papers in CARE Journals notified on UGC website are 249 and books and chapters in edited volumes, books published are 283.
- Revenue generated from consultancy during the year Rs. 1,67,51,142/- Lakhs.
- An amount of Rs.37,61,095/- spent on developing facilities and training for non-teaching staff and teaching for undertaking consultancy.

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)**

1512285

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)**

105

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

26

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

88

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

6

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.

V.R. Siddhartha Engineering College had created innovation, IPR, startups, and Entrepreneurship ecosystem in the campus through Institution Innovation Council (IIC) and Entrepreneurship Development Cell (EDC). The IIC has conducted about 33 activities in 2021-22, related to innovation, IPR, Start-ups, and Entrepreneurship by inviting prominent experts such as outstanding Scientists and Director General, NSTL; Assistant Director, Ministry of MSME; Joint Director, Director of industries, Govt of AP; Director General, CIMSME; CEO, FOPPLE DRONE TECH PVT.LTD - ideation program; Craig Moreyra Regional Manager - Wadhvani Foundation, South India; Dr. Bala Ramadhorai Author - Karmic Design Thinking, an International Visiting Professor; CEO, IIT Tirupati NIF and team; Director, IIT Madras, etc.

In addition, Institute has participated in various schemes such as ARIIA, NISP, NEP, Yukti, KAPILA, IA, and Hackathons, etc. organized by MIC, Govt. of India.

No. of ideas generated by students & faculty are 185 and Innovation / prototypes developed are 59.

IPRs: Filed:08, Published:46 and Granted:03, Copyrights Registered:3

Student & Faculty Start-ups/Ventures established:02

Amount spent on Innovation and Entrepreneurship during the year: Rs.3,10,871.

Fund support to lead Innovations, start-ups and IPRs: Rs.2,25,600.

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

46

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

7

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	View File

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

249

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

283

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**

1542 (2021) 2000 (2022)

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**

34

File Description	Documents
Bibliometrics 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)

16751142

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

4932171

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 organizes multiple outreach camps in nearby adopted villages and several activities were carried out by NSS volunteers addressing social issues which include cleanliness, tree plantation, road safety, Environmental awareness, Women empowerment, National Integrity, Aids awareness, Blood donation camp, Health check-up camp, Veterinary guidance, Farmers meet, Awareness about farmer's suicide etc.

- Nine activities on Swachh Bharath - Removal of plastic waste from roadsides, Tree plantation in the villages & roadside, etc.
- Five activities on Environmental protection to minimize energy wastage and stop vehicular pollution.
- Two mega vaccination drives were conducted on campus for the benefit of 500 students, faculty and Non-teaching staffs.
- 500 students and faculty participated in three blood donation and one blood donation awareness programme, organized in the campus.
- Nine Health-related activities were organized, such as early detection of cancer in village people, pulse-polio vaccination program, health & nutrition to the girl child, etc.
- Six calendar events related to National importance such as Independence Day, Youth day and Yoga Day etc. are organized with a student participation of 690.
- Other activities: the right of girl child - education, health & nutrition, enrolment of new voters and its importance in a democracy. Books distribution 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

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)

36

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

3991

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

123

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)

73

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 has excellent infrastructural facilities spread over 24.05 Acres of land with an instructional area of 27,271 sq.m and a total built-up area of 66,165 sq.m. The Institution has 102 laboratories, 77 classrooms, 09 smart classrooms, 09 Seminar Halls, and 01 Auditorium with 600 seated capacity.

- All classrooms are equipped with adequate lighting and good ventilation, Multimedia Projector, Wi-Fi, Podium, Fan, Light, and Glass board.
- Smart classrooms are equipped with LCD Projector with Smart interactive board facilities, Wi-Fi, and Audio and Video facilities for an effective Teaching learning process.
- Seminar Halls are equipped with LCD Projectors with whiteboard facilities, Wi-Fi, and Audio and Video facilities.
- All Laboratories are equipped with state-of-the-art facilities with periodic maintenance mainly system maintenance, antivirus updations, software updations, calibration, and servicing.
- In addition to regular curriculum labs, the college established more than 20 labs and COEs in collaboration with the industry for skill upgradation in advanced technologies in the last five years.
- The entire campus is facilitated with mobility aware Wi-Fi connectivity and with abundant bandwidth. All computers are connected to the campus networks with 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 has 10 acres of land for playing fields. The department of Physical Education has enough facilities for both outdoor and indoor games. The institution hosts inter University zonal tournaments on campus.

- To promote cultural events among students on campus, cultural clubs were constituted in the college. Different clubs are constituted at both the department level and Institute level. Literary, Photography, and Music clubs are available at the Institute level. A cultural coordinator is appointed at the institute of level to look after all cultural activities.
- A 600-capacity auditorium is provided for Yoga. A course in Yoga is offered as part of the curriculum.
- Adequate facilities are provided for Cricket, Football, Volleyball, Ball badminton, Kho-Kho, Tennicoit, Throw ball, and Basketball.
- Two Cricket Net Practice arenas with Astro layer are provided.
- Facilities for Sports such as long jump, high jump, shot put, disc throws, and 400 meters eight standard lane track are provided.
- The college has 661.8 sq.m Built-up area for indoor games such as Table Tennis, Badminton, and Chess.
- Gymnasia are available at the physical education department and in the women's hostel.
- Cardio exercise equipment such as cross trainers, and treadmills are available at the Girls' hostel and outdoor two badminton courts available and recreation room with table tennis, carom boards and chess facility available.
- Campus boys hostel has been facilitated with volley ball and two badminton courts.

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)

1674.97

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)

Integrated Library Management Software:

The important role that the Library Management System will play in planning and implementing library automation projects, it is necessary to educate ourselves and know more about these systems. This will introduce you to library automation and will focus on integrated library systems(ILS). A library management system, also

known as an automated library system is software that has been developed to handle basic housekeeping functions of a library. The functions that may automated are any or all of the following: acquisition, cataloguing, Circulation, serials management and usage reports.

The Library follows open access system, encouraging the user to browse freely in the stock area. It is fully automated

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

S.No

Period

Up-gradation

Amount Spent Rs.

1.

2022

AMC Charges for Libsys Software

1,44,255/-

2.

2021

AMC Charges for Libsys Software

1,44,255/-

3.

2019

upgraded to Ver 10.0 (Includes 18 Months AMC)

4,15,360/-

4.

2014

Augmented with Libsys (Ver 7.0) software,

6,10,450/-

5.

1995 to 2014

Automated with CDS-ISIS software

Free

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)

31,43,502

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

388

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 Available bandwidth

- The Institute provides 24x7 internet facility with 1 Gbps (Redundant leased line connections)
- Name of the Internet provider: Reliance Jio Infocomm and TATA Tele Services.
- Reliance Jio Infocomm: 300 Mbps 1:1 leased line
- TATA Tele Services: 700 Mbps 1:1 leased line
- BSNL-30Mbps

WiFi availability:

- 150 Wi-Fi access points installed across the campus (viz: Library, Classrooms, Labs, Faculty cabins, Seminar halls, open areas) to provide seamless wireless internet access to students and faculty. Two Wi-Fi controllers are being utilized to manage these access points.

Internet access in labs, classrooms, library and offices of all Departments:

- Entire campus including labs, classrooms, corridors, faculty cabins, library, department office, seminar halls, conference halls, hostels are enabled with both wired and Wi-fi Internet access
- Computers with Internet: 1600
- Campus fiber optic backbone with 1 Gbps connectivity upgradable to 10Gbps

Security mechanism:

- Institute level network was designed with IPv4 subnets for all departments
- Configured department level VLANs in Network Switches
- Maintaining institute internet firewall SOPHOS XG-450 Firewall with Full Guard Protection

The operations include

- Concurrent connections: 13,640,000 and New connections/sec: 1,87,000
- Base Firewall, Network Protection, Web Protection, Email Protection, Web Server Protection
- Expenditure for Firewall establishment Rs.15 lakhs in 2020-21 & Rs.18 lakhs in 2017-18.

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
5302	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: **A. All four of the above Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing**

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)

1206.43

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 defined procedures for maintaining physical, academic, and support facilities as per the maintenance policy.

Operating Procedure:

- Any problem that persists in a department is represented to

the maintenance in charge through a letter/mail

- The in-charge depute a skilled person/technician to attend to the problem
- The skilled person will resolve the problem on-site if no additional material is required.
- In case of material requirement, it is received from the maintenance section through an indent.
- If the material is to be procured from outside, permission is to be obtained from the maintenance in charge / Head of the Institution and arrange for the procurement of material to resolve the problem.

Other Maintenance:

- The annual inspection of Electrical installations maintenance and safety of Electric supply is done by the Directorate of Electrical Safety, Government of Andhra Pradesh.
- The annual inspection is done for Fire Safety by AP state Disaster Response and Fire Service Department. Pest Control maintenance is done periodically. The Department of Mechanical Engineering maintains the central workshop facility which provides services including the custom fabrication of cabinets, and desks, installation of doors and windows, and frames for displaying banners.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://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

2993

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

225

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/C-5.1.4-TnP.pdf
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

5302

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	No File Uploaded
Upload any additional information	No File Uploaded

5.2 - Student Progression

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

1390

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

81

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

155

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

33

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	View File
Paste link for additional information	Nil

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

4

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

Fledging and Growth of VRSEC alumni: Alumni Association of V.R. Siddhartha Engineering College, registered as a society named as VR Siddhartha Engineering College Old Students Association {VRSECOSA} in the year 2003. From 2006, every year a grand Silver Jubilee event of respective passed out batch is being celebrated in the last week of December. REUNION 2022 is scheduled on December 24th 2022.

Reciprocation to the Alma mater: The Alumni have created a corpus fund of Rs. 2 Crores, the interest of which is being utilized for various activities in the college. Alumni Association initiated a Scholarship programme "SIDDHARTHA SAHAAYA". Under this programme, meritorious and economically poor students are being identified in the first year and is awarded Rs.15,000/- per year towards the living expenses and gets continued for four years of the programme. 135 students received Siddhartha Sahaaya scholarships during the year 2021-22.

Alumni is contributing in academic and professional services in many ways like Internships, Placements, consultancy, sponsored projects, industrial visits, participation in DAB, BOS & Academic Council for Curriculum development, and delivery of lectures, such as Job oriented, awareness on opportunities in USA, Career opportunities in various disciplines, Career opportunities with masters in abroad.

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 stake holders 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.

A Dean, takes instructions from the Principal, implements them, and provides 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: Budget

- HoDs are directed to propose a budget for the coming

academic year.

- The lab-incharges and co-ordinators are directed to provide the information of new facilities to be created in the coming academic year.
- The consolidated budget will be discussed and presented before the principal.
- All departmental budgets in-line with their financial plans will be discussed and finalized in HoDs meeting and forward to Management Committees for final approval. The same is informed to the institution, with or without modification.
- The various heads for which budget is prepared and funds allocated, are provided in the financial guidelines given by the college.
- The HoDs will invite quotations from the vendors and will prepare the comparative statement.
- The comparative statement will be verified by the department purchase committee and sent to the Management through proper channel for sanction of funds.
- Once the Management grants the permission for procurement of the items a purchase order will be placed by the lab in-charge and sent to the vendor.
- After receiving the items, they will be entered into the DPR and Stock registers. HOD puts a request to the Management to release the amount to the vendor through proper channel.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
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 man power 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 A. All of the above

and Accounts Student Admission and Support Examination

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 issued to get treatment at Medical College, a sister concern, at discounted prices.
- Laptops to faculty with subsidised price.
- Employee's co-operative society for credit and thrift, loan at low interest rate.
- All the regularised staff are covered under EPF Scheme and GSLI.
- Maternity Leave.
- Half-pay medical leave.
- Special casual leaves for attending conferences and workshops.
- Study leave for qualification improvement.
- Registration fees, DA, TA for attending conferences and workshops.
- Incentives for R&D activities.
- Subsidized food at canteen.

Non-Teaching Staff

- Health cards issued to get treatment at Medical College, a sister concern, at discounted prices.
- 50% contribution in Synd Arogya scheme for a policy of Rs.1 Lakh.
- Employee's co-operative society for credit and thrift, loan at low interest rate
- All the regularised staff are covered under EPF Scheme and

gratuity

- Scholarship for children of non-teaching staff with low salary.
- In the event of death will be considered for employment on compassionate grounds, subject to eligibility and vacancy availability conditions.
- Maternity Leave
- Half-pay medical leave
- Employee Staff Insurance (ESI) for the staff members having salary less than 21,000/- p.m.
- Subsidized food at canteen

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

115

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

70

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.)

198

File Description	Documents
Summary of the IQAC report	No File Uploaded
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)

0.50

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	No File Uploaded

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 audit.
- Income: Tuition fee, research grants, consultancy, alumni funds, interest on bank deposits

Expenditure: Salaries and Benefits, Power and Fuel, Printing and Stationary, 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

- Proposal and implementation of Five Year Plan for 2020-25 & Strategy.
- Road map to Strategic Plan & annual targets to departments.
- Sensor based energy conservation and Energy Audit.
- Planning of Cultural events & Sports to be organized and Identification & promotion of students for State & National level competitions, Awards.
- Regular training to support staff (Technical & Non-Technical/ Admin. Staff).
- Industrial Training to faculty.

- Streamlining the Student projects for emphasizing Paper publications, Patents, Innovative models development &Start-ups.
- Annual planning & Implementation -
 - Execution of Extension activities (NSS) in adopted villages focusing on technical issues in particular and getting solutions with collaborations of outside organizations, and
 - Securing ample number of National & State level awards.

Incremental improvements: Our 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.

In addition to the above, IQAC Continuously monitoring and assessing the parameters for better NIRF ranking, related to

- Strategic Plan
- Academic audit
- Modifications in PBAS
- Seed grants for research work and other support to faculty & students
- Incentives for Research outcomes
- Faculty feedback collection
- Pedagogical Trainings to newly joined faculty & faculty with poor feedback
- Annual goals from departments & their achievements
- Departmental performance

File Description	Documents
Upload any additional information	View File
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 review Teaching-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	View File
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

A. Any 4 or all of the above

institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.vrsiddhartha.ac.in/annual-reports/
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

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

VRSEC has taken several initiatives sensitizing the gender equity. Regular counselling programs by Anti- Sexual harassment committee, Internal Complaint Committee (ICC) and women's grievance cell are in practice to address their personal problems. The following activities are organized during AY 2021-22

- Webinar on "Yuva Nari's Health Care" for girls to create awareness on healthy food and need of physical exercise by Mohammed Shama Sultana MBBS, DGO on 5th July 2021.
- Guest Lecture by Dr. Chagarlamudi Sandhya Rani on "Gynaecological problems in women" on 24th February 2022.
- A Guest Lecture by Dr. Usha Eswaran on 'Role of Men and Women in Societal and Country Development" was organized on 7th March, 2022, 255 students participated.
- Awareness program on "Anaemia, thyroid, and cervical cancer" on 25th April 2022.
- One Day International Women Leadership Conclave (IWLC) was organized on behalf of Women's Day on 8th March 2022, where inspiring women personalities are invited to share their life experiences and motivate the students and to provide insight knowledge on leading-edge professional development leadership, innovation, technology, and entrepreneurship

that aims to inspire and advance girl students.

Safety and security- Counselling, Common rooms for girls, separate Canteen space and dedicated hostels for girls are provided. Sanitary Napkin Vending Machines & Incinerators, 240 CC cameras are in operation. All the Common Rooms of girls are having proper ventilation and adequate furniture.

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)

Solid waste management: The solid waste generated includes food wastes from canteen and hostel and waste from greenery and plants in the campus are collected in green and blue colour Bins provided across the campus. The waste is segregated into decomposable and non-decomposable. The green bins are meant for decomposable and blue are meant for non-decomposable solid waste. A compost plant was established to convert decomposable organic matter into manure, in the campus. The collected decomposable waste is transported to compost plant. The organic fertilizer produced in the compost plant is used as manure for the greenery and plantation in the campus.

Liquid Waste Management: The liquid waste generated out of various sanitary fittings in every department is collected through closed drainage system and connected to septic tank. Septic tanks are provided for all buildings for the collection and treatment of

liquid waste. While storm sewage is collected and conveyed to nearby public open drain at the time of rains.

Biomedical Waste: The sanitary napkins are disposed by incineration, for which two incinerators are working in the campus.

E-Waste Management: The outdated computers are usually donated to the nearby schools. While the old generation electronic equipment is used to display and demonstration purpose for students.

Waste recycling system: The paper waste generated in the campus is sent to "ITC-WOW organization" for recycling, is a servicing organisation of ITC. They return equivalent quantity of note books to NSS unit of VRSEC. They are distributed to under privileged school students.

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 **A. Any 4 or all of the above**

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

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	No File Uploaded
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	No File Uploaded
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

A. Any 4 or all of the above

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.

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	View File

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).

VRSEC has always been at the forefront of sensitizing students to the cultural, regional, linguistic, communal, and socio-economic diversities of the state and the nation. The college has revised the curriculum with the inclusion of topics related to environmental protection, ethics, human rights, peace, tolerance, love, compassion, harmony and promotion of social values. The courses "Constitution of India" and "Professional ethics" are made mandatory to all students.

Equal opportunities are given to participate in various activities conducted by NSS and NCC units in our institution to mitigate the socio economic diversities and progress them towards a tolerant and harmonious living. Anti-ragging cell to maintain tolerance and harmony and Grievances redressal committee to address the grievances are actively working to maintain harmony in the campus. Placements in the campus with attractive packages for economically weaker sections is the indication of inclusive environment in the campus. The institute provides scholarships for deprived and merit students as financial support. Central Library has a facility to issue books to SC/ST students.

"Samskruthi", the institution's cultural and Literary club,

organizes various activities like Songs, Dances, Skits and Literary events round the year. A senior faculty is acting as coordinator to organize cultural and literary activities. The involved students make them aware of social responsibilities and understand the implications of their actions.

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:

The students are inspired by participating in various programs on culture, traditions, values, duties and responsibilities. Several programmes were organized on the ban on plastics, cleanliness, Swachh Bharat, etc. Code of conduct for students, faculty and staff is in place and everyone should obey the rules of conduct. The curriculum framed with mandatory courses like Professional Ethics and Practice, Universal Human Values and Indian Constitution is an initiative to inculcate constitutional obligations among the students.

NSS unit is encouraging the students and it is successfully conducting activities to serve the society. Institution takes pride in launching the Plantation Programme wherein the focus does not stop with the sound academic foundation of the student community but it moves a step forward to develop them as better citizens of the country. The College celebrates Independence Day & Republic Day, where principal addresses responsibility of every student with reference to constitutional obligations.

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 A. All of the above

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

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	View File

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

1. Title of the Practice: Academic audit

Academic audit is a procedure of verifying and confirming the performance of academic practices and procedures against planned/standard procedures. Importance of academic audit is to increase the goodwill of institution, Students confidence, teacher’s up-gradation, helpful in ranking of institution, satisfaction of stakeholders, etc. The academic audit is normally carried out at the end of every Academic year.

.2. Objectives of the Practice:

- To take steps for the periodic internal academic audit of the teaching-learning and research activities of all departments/faculties and institutes
- To set quality benchmarks for all units and evolve mechanisms for monitoring and ensuring performance in accordance with them.
- To evolve and implement strategies for self-evaluation to

sensitize all functionaries to be accountable for student and stakeholder satisfaction.

- To streamline academic functions and standardize practices
- To ensure every faculty members perform his/her best in teaching and research
- to provide feedback to faculty members on areas which need improvement
- To build up a system for conscious and regular action to improve the academic and administrative performance of the institution.
- To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

3. The Context:

- Innovative teaching pedagogy by faculty members
- Full proof documentation and standardized formats
- Improved performance of students in internal and external assessments
- Monitoring and control mechanisms improve performance
- Standardization of practices for quality control
- Benchmarking for improved performance

File Description	Documents
Best practices in the Institutional website	https://www.vrsiddhartha.ac.in/wp-content/uploads/2021/02/best_practices_re.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)

The thrust areas focused to achieve the 'VISION' are

- Outcome based education
- Training of faculty and students in advanced Technologies through Collaborative laboratories

- Projects on society relevant problems.

Out of the areas mentioned above the Institute has a distinction by establishing several Centers of Excellence (CoE) and Industry Collaborative Laboratories.

INDUSTRY COLLABORATIVE LABORATORIES:

1. CISCO networking academy
2. IBM software lab for emerging technologies
3. DASSAULT systems
4. ORACLE corporation
5. APPLE authorized training center for education
6. Video analytics research lab
7. ANBLICKS ignite center

CENTERS OF EXCELLENCE (CoE):

1. SIEMENS CoE: - This unique center established in the college, in association with APSSDC as a PPP corporation to promote skill-development entrepreneurship in the state, is housed in a space of 23000 Sqft and other facilities worth Rs.5.50 Crores with 13 different labs.
2. CoE in COMPOSITES: This centre is established in 2014 with DST- FIST in ME Dept to develop new materials which are economical and ecofriendly. The facility has equipment worth Rs. 60 lakhs that can be used for research, testing and consultancy.

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 stakeholders 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

7

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

694

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	No File Uploaded
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**

56

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

19

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

39

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

3542

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

1019

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/wp-content/uploads/2019/09/igacfeedbackreport_2021-22.pdf
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/wp-content/uploads/2019/09/igacfeedbackreport_2021-22.pdf
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

1251	
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)	
783	
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:	
<p>The slow and fast learners are identified through</p> <ol style="list-style-type: none"> 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	
<ul style="list-style-type: none"> • 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.

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 presentations and 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
01/07/2021	5302	313

File Description	Documents
Upload any additional information	No File Uploaded

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

294

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	
313	
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	View File
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	
145	
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	No File Uploaded
2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)	
3184	
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	

15	
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	View File
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	
<p>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.</p> <p>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.</p> <p>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.</p> <p>Day wise/room wise/semester wise seating arrangement is</p>	

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**

1416

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	https://www.vrsiddhartha.ac.in/wp-content/uploads/2019/09/46th_annual_report_13042023.pdf

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

- R & D policy is in place to promote faculty and students for Research and Development.
- About 30 computing systems were procured for research, with a configuration of HP PRO ONE 600 G5 21.5 inches ALL IN ONE Desktops - INTEL CORE i7 9th Generation, 1TB HDD, 16 GB DDR4 RAM, Integrated Full HD 1080p Webcam, AMD Radeon 530 with 2 GB Graphic Card worth of Rs.18 Lakhs.
- A Seed grant of Rs.5,94,083/- Lakhs was provided for research during the year.
- 46 Research capacity building programs (Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship, etc.) were organized during the year.
- Total number of Faculty recognized as PhD guides are 88, out of which 11 faculty are recognized during the year.
- No. of Collaborative activities during the year for research, internship, on-job training, project work is 123.
- MoUs with institution / organizations for training and research & development are 73.
- Rs. 10,76,887 as financial support & Incentives for Research projects, Publications, filling patents, etc.
- Promotion for Quality student Projects and publish their projects in quality journals / Scopus supported conferences.
- One faculty was awarded with Post-Doctoral fellowship & two faculty are pursuing their Post-Doctoral during the year.
- Total R&D Grant received from SERB-DST, ISRO, NRSC, Postal department, IMEDS Global, etc. is Rs.1,02,65,032/-
- Research papers in CARE Journals notified on UGC website are 249 and books and chapters in edited volumes, books published are 283.
- Revenue generated from consultancy during the year Rs. 1,67,51,142/- Lakhs.
- An amount of Rs.37,61,095/- spent on developing facilities and training for non-teaching staff and teaching for undertaking consultancy.

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)

1512285

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)

105

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

26

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

88

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

6

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.

V.R. Siddhartha Engineering College had created innovation, IPR, startups, and Entrepreneurship ecosystem in the campus through Institution Innovation Council (IIC) and Entrepreneurship Development Cell (EDC). The IIC has conducted about 33 activities in 2021-22, related to innovation, IPR, Start-ups, and Entrepreneurship by inviting prominent experts such as outstanding Scientists and Director General, NSTL; Assistant Director, Ministry of MSME; Joint Director, Director of industries, Govt of AP; Director General, CIMSME; CEO, FOPPLE DRONE TECH PVT.LTD - ideation program; Craig Moreyra Regional Manager - Wadhvani Foundation, South India; Dr. Bala Ramadhorai Author - Karmic Design Thinking, an International Visiting Professor; CEO, IIT Tirupati NIF and team; Director, IIT Madras, etc.

In addition, Institute has participated in various schemes such as ARIIA, NISP, NEP, Yukti, KAPILA, IA, and Hackathons, etc. organized by MIC, Govt. of India.

No. of ideas generated by students & faculty are 185 and Innovation / prototypes developed are 59.

IPRs: Filed:08, Published:46 and Granted:03, Copyrights Registered:3

Student & Faculty Start-ups/Ventures established:02

Amount spent on Innovation and Entrepreneurship during the year: Rs.3,10,871.

Fund support to lead Innovations, start-ups and IPRs: Rs.2,25,600.

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

46

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

7

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	View File

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

249

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

283

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

1542 (2021) 2000 (2022)

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

34

File Description	Documents
Bibliometrics 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)

16751142

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

4932171

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 organizes multiple outreach camps in nearby adopted villages and several activities were carried out by NSS volunteers addressing social issues which include cleanliness, tree plantation, road safety, Environmental awareness, Women empowerment, National Integrity, Aids awareness, Blood donation camp, Health check-up camp, Veterinary guidance, Farmers meet, Awareness about farmer's suicide etc.

- Nine activities on Swachh Bharath - Removal of plastic waste from roadsides, Tree plantation in the villages &

roadside, etc.

- Five activities on Environmental protection to minimize energy wastage and stop vehicular pollution.
- Two mega vaccination drives were conducted on campus for the benefit of 500 students, faculty and Non-teaching staffs.
- 500 students and faculty participated in three blood donation and one blood donation awareness programme, organized in the campus.
- Nine Health-related activities were organized, such as early detection of cancer in village people, pulse-polio vaccination program, health & nutrition to the girl child, etc.
- Six calendar events related to National importance such as Independence Day, Youth day and Yoga Day etc. are organized with a student participation of 690.
- Other activities: the right of girl child - education, health & nutrition, enrolment of new voters and its importance in a democracy. Books distribution 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

11

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)

36

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

3991

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

123

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)

73

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 has excellent infrastructural facilities spread over 24.05 Acres of land with an instructional area of 27,271 sq.m and a total built-up area of 66,165 sq.m. The Institution has 102 laboratories, 77 classrooms, 09 smart classrooms, 09 Seminar Halls, and 01 Auditorium with 600 seated capacity.

- All classrooms are equipped with adequate lighting and good ventilation, Multimedia Projector, Wi-Fi, Podium, Fan, Light, and Glass board.
- Smart classrooms are equipped with LCD Projector with Smart interactive board facilities, Wi-Fi, and Audio and Video facilities for an effective Teaching learning process.
- Seminar Halls are equipped with LCD Projectors with whiteboard facilities, Wi-Fi, and Audio and Video facilities.
- All Laboratories are equipped with state-of-the-art facilities with periodic maintenance mainly system maintenance, antivirus updations, software updations, calibration, and servicing.
- In addition to regular curriculum labs, the college established more than 20 labs and COEs in collaboration with the industry for skill upgradation in advanced technologies in the last five years.
- The entire campus is facilitated with mobility aware Wi-Fi connectivity and with abundant bandwidth. All computers are connected to the campus networks with 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 has 10 acres of land for playing fields. The

department of Physical Education has enough facilities for both outdoor and indoor games. The institution hosts inter University zonal tournaments on campus.

- To promote cultural events among students on campus, cultural clubs were constituted in the college. Different clubs are constituted at both the department level and Institute level. Literary, Photography, and Music clubs are available at the Institute level. A cultural coordinator is appointed at the institute of level to look after all cultural activities.
- A 600-capacity auditorium is provided for Yoga. A course in Yoga is offered as part of the curriculum.
- Adequate facilities are provided for Cricket, Football, Volleyball, Ball badminton, Kho-Kho, Tennicoit, Throw ball, and Basketball.
- Two Cricket Net Practice arenas with Astro layer are provided.
- Facilities for Sports such as long jump, high jump, shot put, disc throws, and 400 meters eight standard lane track are provided.
- The college has 661.8 sq.m Built-up area for indoor games such as Table Tennis, Badminton, and Chess.
- Gymnasia are available at the physical education department and in the women's hostel.
- Cardio exercise equipment such as cross trainers, and treadmills are available at the Girls' hostel and outdoor two badminton courts available and recreation room with table tennis, carom boards and chess facility available.
- Campus boys hostel has been facilitated with volley ball and two badminton courts.

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)

1674.97

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)

Integrated Library Management Software:

The important role that the Library Management System will play in planning and implementing library automation projects, it is necessary to educate ourselves and know more about these systems. This will introduce you to library automation and will focus on integrated library systems(ILS). A library management system, also known as an automated library system is software that has been developed to handle basic housekeeping functions of a library. The functions that may automated are any or all of the following: acquisition, cataloguing, Circulation, serials management and usage reports.

The Library follows open access system, encouraging the user to browse freely in the stock area. It is fully automated

- Name of the ILMS software: Libsys LSM
- Nature of automation (fully or partially):Fully
- Version:10
- Year of automation: 1995

- Open for all students and staff through remote access throughout the campus(OPAC)

S.No

Period

Up-gradation

Amount Spent Rs.

1.

2022

AMC Charges for Libsys Software

1,44,255/-

2.

2021

AMC Charges for Libsys Software

1,44,255/-

3.

2019

upgraded to Ver 10.0 (Includes 18 Months AMC)

4,15,360/-

4.

2014

Augmented with Libsys (Ver 7.0) software,

6,10,450/-

5.

1995 to 2014

Automated with CDS-ISIS software

Free

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)

31,43,502

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

388

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 Available bandwidth

- The Institute provides 24x7 internet facility with 1 Gbps (Redundant leased line connections)
- Name of the Internet provider: Reliance Jio Infocomm and TATA Tele Services.
- Reliance Jio Infocomm: 300 Mbps 1:1 leased line
- TATA Tele Services: 700 Mbps 1:1 leased line
- BSNL-30Mbps

WiFi availability:

- 150 Wi-Fi access points installed across the campus (viz: Library, Classrooms, Labs, Faculty cabins, Seminar halls, open areas) to provide seamless wireless internet access to students and faculty. Two Wi-Fi controllers are being utilized to manage these access points.

Internet access in labs, classrooms, library and offices of all Departments:

- Entire campus including labs, classrooms, corridors, faculty cabins, library, department office, seminar halls, conference halls, hostels are enabled with both wired and Wi-fi Internet access
- Computers with Internet: 1600
- Campus fiber optic backbone with 1 Gbps connectivity upgradable to 10Gbps

Security mechanism:

- Institute level network was designed with IPv4 subnets for all departments
- Configured department level VLANs in Network Switches
- Maintaining institute internet firewall SOPHOS XG-450

Firewall with Full Guard Protection

The operations include

- Concurrent connections: 13,640,000 and New connections/sec: 1,87,000
- Base Firewall, Network Protection, Web Protection, Email Protection, Web Server Protection
- Expenditure for Firewall establishment Rs.15 lakhs in 2020-21 & Rs.18 lakhs in 2017-18.

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
5302	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. 750 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)

1206.43

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 defined procedures for maintaining physical, academic, and support facilities as per the maintenance policy.

Operating Procedure:

- Any problem that persists in a department is represented to the maintenance in charge through a letter/mail
- The in-charge depute a skilled person/technician to attend to the problem
- The skilled person will resolve the problem on-site if no additional material is required.
- In case of material requirement, it is received from the maintenance section through an indent.
- If the material is to be procured from outside, permission is to be obtained from the maintenance in charge / Head of the Institution and arrange for the procurement of material to resolve the problem.

Other Maintenance:

- The annual inspection of Electrical installations maintenance and safety of Electric supply is done by the Directorate of Electrical Safety, Government of Andhra Pradesh.
- The annual inspection is done for Fire Safety by AP state Disaster Response and Fire Service Department. Pest Control maintenance is done periodically. The Department of Mechanical Engineering maintains the central workshop facility which provides services including the custom fabrication of cabinets, and desks, installation of doors and windows, and frames for displaying banners.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://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**

2993

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

225

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/C-5.1.4-TnP.pdf
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

5302

File Description	Documents
Any additional information	No File Uploaded
Number of students benefitted 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'

A. All of the above

grievances Timely redressal of grievances through appropriate committees	
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	No File Uploaded
Upload any additional information	No File Uploaded
5.2 - Student Progression	
5.2.1 - Number of outgoing students who got placement during the year	
1390	
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	
81	
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	

155

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

33

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	View File
Paste link for additional information	Nil

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

4

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

Fledging and Growth of VRSEC alumni: Alumni Association of V.R. Siddhartha Engineering College, registered as a society named as VR Siddhartha Engineering College Old Students Association {VRSECOSA} in the year 2003. From 2006, every year a grand Silver Jubilee event of respective passed out batch is being celebrated in the last week of December. REUNION 2022 is scheduled on December 24th 2022.

Reciprocation to the Alma mater: The Alumni have created a corpus fund of Rs. 2 Crores, the interest of which is being utilized for various activities in the college. Alumni Association initiated a Scholarship programme "SIDDHARTHA SAHAAYA". Under this programme, meritorious and economically poor students are being identified in the first year and is awarded Rs.15,000/- per year towards the living expenses and gets continued for four years of the programme. 135 students received Siddhartha Sahaaya scholarships during the year 2021-22.

Alumni is contributing in academic and professional services in many ways like Internships, Placements, consultancy, sponsored

projects, industrial visits, participation in DAB, BOS & Academic Council for Curriculum development, and delivery of lectures, such as Job oriented, awareness on opportunities in USA, Career opportunities in various disciplines, Career opportunities with masters in abroad.

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 stake holders 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.

A Dean, takes instructions from the Principal, implements them, and provides 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: Budget

- HoDs are directed to propose a budget for the coming academic year.
- The lab-incharges and co-ordinators are directed to provide the information of new facilities to be created in the coming academic year.
- The consolidated budget will be discussed and presented before the principal.
- All departmental budgets in-line with their financial plans will be discussed and finalized in HoDs meeting and forward to Management Committees for final approval. The same is informed to the institution, with or without modification.
- The various heads for which budget is prepared and funds

allocated, are provided in the financial guidelines given by the college.

- The HoDs will invite quotations from the vendors and will prepare the comparative statement.
- The comparative statement will be verified by the department purchase committee and sent to the Management through proper channel for sanction of funds.
- Once the Management grants the permission for procurement of the items a purchase order will be placed by the lab in-charge and sent to the vendor.
- After receiving the items, they will be entered into the DPR and Stock registers. HOD puts a request to the Management to release the amount to the vendor through proper channel.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	View File
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 man power 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
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File Description	Documents
ERP (Enterprise Resource Planning) Document	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 issued to get treatment at Medical College, a sister concern, at discounted prices.
- Laptops to faculty with subsidised price.
- Employee's co-operative society for credit and thrift, loan at low interest rate.
- All the regularised staff are covered under EPF Scheme and GSLI.
- Maternity Leave.
- Half-pay medical leave.
- Special casual leaves for attending conferences and workshops.
- Study leave for qualification improvement.
- Registration fees, DA, TA for attending conferences and workshops.
- Incentives for R&D activities.
- Subsidized food at canteen.

Non-Teaching Staff

- Health cards issued to get treatment at Medical College, a sister concern, at discounted prices.
- 50% contribution in Synd Arogya scheme for a policy of Rs.1 Lakh.
- Employee's co-operative society for credit and thrift, loan at low interest rate
- All the regularised staff are covered under EPF Scheme and gratuity

- Scholarship for children of non-teaching staff with low salary.
- In the event of death will be considered for employment on compassionate grounds, subject to eligibility and vacancy availability conditions.
- Maternity Leave
- Half-pay medical leave
- Employee Staff Insurance (ESI) for the staff members having salary less than 21,000/- p.m.
- Subsidized food at canteen

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

115

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

70

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.)

198

File Description	Documents
Summary of the IQAC report	No File Uploaded
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)

0.50

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	No File Uploaded

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 audit.
- Income: Tuition fee, research grants, consultancy, alumni funds, interest on bank deposits

Expenditure: Salaries and Benefits, Power and Fuel, Printing and Stationary, 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

- Proposal and implementation of Five Year Plan for 2020-25 & Strategy.
- Road map to Strategic Plan & annual targets to departments.
- Sensor based energy conservation and Energy Audit.
- Planning of Cultural events & Sports to be organized and Identification & promotion of students for State & National level competitions, Awards.

- Regular training to support staff (Technical & Non-Technical/ Admin. Staff).
- Industrial Training to faculty.
- Streamlining the Student projects for emphasizing Paper publications, Patents, Innovative models development & Start-ups.
- Annual planning & Implementation -
 - Execution of Extension activities (NSS) in adopted villages focusing on technical issues in particular and getting solutions with collaborations of outside organizations, and
 - Securing ample number of National & State level awards.

Incremental improvements: Our 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.

In addition to the above, IQAC continuously monitoring and assessing the parameters for better NIRF ranking, related to

- Strategic Plan
- Academic audit
- Modifications in PBAS
- Seed grants for research work and other support to faculty & students
- Incentives for Research outcomes
- Faculty feedback collection
- Pedagogical Trainings to newly joined faculty & faculty with poor feedback
- Annual goals from departments & their achievements
- Departmental performance

File Description	Documents
Upload any additional information	View File
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 review

Teaching-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	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/igac-meetings/

<p>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)</p>	<p>A. Any 4 or all of the above</p>
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File Description	Documents
Paste the web link of annual reports of the Institution	https://www.vrsiddhartha.ac.in/annual-reports/
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

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

VRSEC has taken several initiatives sensitizing the gender equity. Regular counselling programs by Anti- Sexual harassment committee, Internal Complaint Committee (ICC) and women's grievance cell are in practice to address their personal problems. The following activities are organized during AY 2021-22

- Webinar on "Yuva Nari's Health Care" for girls to create awareness on healthy food and need of physical exercise by Mohammed Shama Sultana MBBS, DGO on 5th July 2021.
- Guest Lecture by Dr. Chagarlamudi Sandhya Rani on "Gynaecological problems in women" on 24th February 2022.
- A Guest Lecture by Dr. Usha Eswaran on 'Role of Men and Women in Societal and Country Development" was organized on 7th March, 2022, 255 students participated.
- Awareness program on "Anaemia, thyroid, and cervical cancer" on 25th April 2022.

- One Day International Women Leadership Conclave (IWLC) was organized on behalf of Women’s Day on 8th March 2022, where inspiring women personalities are invited to share their life experiences and motivate the students and to provide insight knowledge on leading-edge professional development leadership, innovation, technology, and entrepreneurship that aims to inspire and advance girl students.

Safety and security- Counselling, Common rooms for girls, separate Canteen space and dedicated hostels for girls are provided. Sanitary Napkin Vending Machines & Incinerators, 240 CC cameras are in operation. All the Common Rooms of girls are having proper ventilation and adequate furniture.

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)

Solid waste management: The solid waste generated includes food wastes from canteen and hostel and waste from greenery and plants in the campus are collected in green and blue colour Bins provided across the campus. The waste is segregated into decomposable and non-decomposable. The green bins are meant for decomposable and blue are meant for non-decomposable solid waste. A compost plant was established to convert decomposable organic matter into manure, in the campus. The collected decomposable waste is transported to compost plant. The organic

fertilizer produced in the compost plant is used as manure for the greenery and plantation in the campus.

Liquid Waste Management: The liquid waste generated out of various sanitary fittings in every department is collected through closed drainage system and connected to septic tank. Septic tanks are provided for all buildings for the collection and treatment of liquid waste. While storm sewage is collected and conveyed to nearby public open drain at the time of rains.

Biomedical Waste: The sanitary napkins are disposed by incineration, for which two incinerators are working in the campus.

E-Waste Management: The outdated computers are usually donated to the nearby schools. While the old generation electronic equipment is used to display and demonstration purpose for students.

Waste recycling system: The paper waste generated in the campus is sent to "ITC-WOW organization" for recycling, is a servicing organisation of ITC. They return equivalent quantity of note books to NSS unit of VRSEC. They are distributed to under privileged school students.

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

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	No File Uploaded

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	No File Uploaded
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	No File Uploaded
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	View File

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).

VRSEC has always been at the forefront of sensitizing students to the cultural, regional, linguistic, communal, and socio-economic diversities of the state and the nation. The college has revised the curriculum with the inclusion of topics related

to environmental protection, ethics, human rights, peace, tolerance, love, compassion, harmony and promotion of social values. The courses "Constitution of India" and "Professional ethics" are made mandatory to all students.

Equal opportunities are given to participate in various activities conducted by NSS and NCC units in our institution to mitigate the socio economic diversities and progress them towards a tolerant and harmonious living. Anti-ragging cell to maintain tolerance and harmony and Grievances redressal committee to address the grievances are actively working to maintain harmony in the campus. Placements in the campus with attractive packages for economically weaker sections is the indication of inclusive environment in the campus. The institute provides scholarships for deprived and merit students as financial support. Central Library has a facility to issue books to SC/ST students.

"Samskruthi", the institution's cultural and Literary club, organizes various activities like Songs, Dances, Skits and Literary events round the year. A senior faculty is acting as coordinator to organize cultural and literary activities. The involved students make them aware of social responsibilities and understand the implications of their actions.

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:

The students are inspired by participating in various programs on culture, traditions, values, duties and responsibilities. Several programmes were organized on the ban on plastics, cleanliness, Swachh Bharat, etc. Code of conduct for students, faculty and staff is in place and everyone should obey the rules of conduct. The curriculum framed with mandatory courses like Professional Ethics and Practice, Universal Human Values and Indian Constitution is an initiative to inculcate constitutional obligations among the students.

NSS unit is encouraging the students and it is successfully

conducting activities to serve the society. Institution takes pride in launching the Plantation Programme wherein the focus does not stop with the sound academic foundation of the student community but it moves a step forward to develop them as better citizens of the country. The College celebrates Independence Day & Republic Day, where principal addresses responsibility of every student with reference to constitutional obligations.

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	View File

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

1. Title of the Practice: Academic audit

Academic audit is a procedure of verifying and confirming the performance of academic practices and procedures against planned/standard procedures. Importance of academic audit is to increase the goodwill of institution, Students confidence, teacher's up-gradation, helpful in ranking of institution, satisfaction of stakeholders, etc. The academic audit is normally carried out at the end of every Academic year.

.2. Objectives of the Practice:

- To take steps for the periodic internal academic audit of the teaching-learning and research activities of all departments/faculties and institutes
- To set quality benchmarks for all units and evolve mechanisms for monitoring and ensuring performance in accordance with them.
- To evolve and implement strategies for self-evaluation to sensitize all functionaries to be accountable for student and stakeholder satisfaction.
- To streamline academic functions and standardize practices
- To ensure every faculty members perform his/her best in teaching and research
- to provide feedback to faculty members on areas which need improvement
- To build up a system for conscious and regular action to improve the academic and administrative performance of the institution.
- To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

3. The Context:

- Innovative teaching pedagogy by faculty members
- Full proof documentation and standardized formats
- Improved performance of students in internal and external assessments
- Monitoring and control mechanisms improve performance
- Standardization of practices for quality control
- Benchmarking for improved performance

File Description	Documents
Best practices in the Institutional website	https://www.vrsiddhartha.ac.in/wp-content/uploads/2021/02/best_practices_re.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)

The thrust areas focused to achieve the 'VISION' are

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

Out of the areas mentioned above the Institute has a distinction by establishing several Centers of Excellence (CoE) and Industry Collaborative Laboratories.

INDUSTRY COLLABORATIVE LABORATORIES:

1. CISCO networking academy
2. IBM software lab for emerging technologies
3. DASSAULT systems
4. ORACLE corporation
5. APPLE authorized training center for education
6. Video analytics research lab
7. ANBLICKS ignite center

CENTERS OF EXCELLENCE (CoE):

1. SIEMENS CoE: - This unique center established in the college, in association with APSSDC as a PPP corporation to promote skill-development entrepreneurship in the state, is housed in a space of 23000 Sqft and other facilities worth Rs.5.50 Crores with 13 different labs.
2. CoE in COMPOSITES: This centre is established in 2014 with DST- FIST in ME Dept to develop new materials which are economical and ecofriendly. The facility has

equipment worth Rs. 60 lakhs that can be used for research, testing and consultancy.

File Description	Documents
Appropriate link in the institutional website	https://www.vrsiddhartha.ac.in/wp-content/uploads/2020/12/distinctness2020.pdf
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

- Implementation of Activity Calendar in addition to Academic Calendar
- Institutionalization of R & D Excellence award
- Identification of one or two major thrust areas of research in emerging fields to fulfil "Make in India" and "Atmanirbhar Bharat" - subsequent strengthening by providing necessary infrastructural facilities & identifying competent faculty
- Industry / Institute (IIT's) collaborative joint venture projects across all the disciplines
- Revamp of 'Continuous / Internal Assessment pattern'.
- Attention & Mechanism on 'Granting' of patents
- Skill development / Training / Certification courses to faculty & supporting staff for consultancy.
- Attention - EPICS projects confining to societal problems with innovative solutions
- Training programs on OBE - Focusing on Higher order knowledge levels, defining appropriate COs & enhancing PO attainment targets.