



YEARLY STATUS REPORT - 2020-2021

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.	08662582334
• Mobile No. (Principal)	9849599497
• Registered e-mail ID (Principal)	principal@vrsiddhartha.ac.in
• Address	Vasantha Nagar, Kanuru, Bandar Road,
• 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. M V S 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/2021/01/Accepted-AQAR-2019-20-report-5-1-2020.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/wp-content/uploads/2021/02/2020-21_UG_ac.pdf				
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
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	
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
<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 	Yes
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> If yes, mention the amount 	200000
11.Significant contributions made by IQAC during the current year (maximum five bullets)	
<p>? NIRF Ranking - IQAC has identified and initiated steps for the improvement of the following parameters for better NIRF ranking • Number of Ph.D. faculty • Number of Publications & Quality Publications • Research Projects • Patents • Placements, salary package • Higher studies & • Perception</p>	
<p>? ARIIA - Atal Ranking of Institutions on Innovation Achievements IQAC has brought its attention, on ARIIA given by MHRD every year, based on the following parameters steps were initiated for their improvement to get better Atal ranking. • Pre-incubation centres with industry partnership, at department level • Encouragement to both Faculty & students for Start-ups • Identification of permanent investors to our innovations and start-ups • Creation of web page with IIC icon in VRSEC web portal • Maintaining separate head in the financial audit report for IPR, Innovation, Start-up and Entrepreneurship activities.</p>	
<p>? E - content development facilities -In view of the increasing importance of online teaching, the IQAC has decided to develop e-content in all programs for the benefit of students. As per the directions of IQAC, the faculty of all engineering departments are preparing the e-content in their courses and made available in VRSEC website.</p>	
<p>? Review of PBAS metrics (Performance Based Appraisal System) - The IQAC has proposed review of PBAS, which was instituted in 2013, keeping in view of changing scenario in Higher Education, according to guidelines of National Academic Regulatory Bodies, Accreditation</p>	

agencies such as NAAC & NBA and National ranking awarding agencies such as NIRF & ARIIA. The changes were brought mainly in the R&D component; quality student projects, model developments and innovations. The IQAC directed to follow the modified PBAS with immediate effect.

? Effective utilization of Alumni contributions - The biggest asset of the VRSEC is its Alumni, it is very strong and spread across the world. Therefore, IQAC has focused to utilize their services to the institute in a systematic & effective way, with reference to Consultancy, Research projects, internships & placements to the students. In this connection, IQAC has initiated steps to strengthen the existing alumni cell and existing system to enhance the utilization of alumni contributions.

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
Proposed Five year strategic plan 2020-25	To achieve the following targets i) Accreditation of programs(NBA): UG -100% & PG -100%. ii) NIRF ranking :3.51(A++), iv) Atal Ranking of Institutions on Innovation Achievements (ARIIA): one in top 25 among self financed Engineering college in the country.
Road map to execute the proposed Five year (2020-25) strategic plan & yearly bench marks to departments for achieving the targets.	To involve all faculty & students of all departments to take part in achieving the set targets of the strategic plan & thus achieve expected outcome.
Increase in Hostel accommodation to students (Boys)	In the direction of providing residence to all students with adequate facilities.
Setting up of Sensor based energy conservation	To minimize wastage of energy and promote its judicious use and protect the environment.
Initiation of Energy audit	To understand how energy is used within the campus and to find opportunities for improvement

	and energy saving.
Planning of sports & cultural events to be organized & Identification and promotion of students for state & National level competitions	To promote the participation in sports & cultural events at state & National level competition & secure awards.
Student projects - publications	To promote quality of student projects & number of publications.
Frequent trainings to supporting staff (Technical/ Non-Technical)	To update the requirements of fast changing technology/handle the modern equipment, the IQAC felt the importance of frequent training programs to supporting staff of technical & non technical too, along with teaching.
Industrial Training to faculty	The faculty trained in industry will prepare the students industry ready while leaving the institution.
Institutionalization of R&D excellence award	To encourage & recognize the highly contributed faculty in R&D, thus motivate the other faculty in the same direction.
Annual planning of extension activities by NSS wing in collaboration with departments.	Being a technical Institution, the IQAC wishes to involve the students in technical extension activities along with routine extension activities such as distribution of food/blanket/notebooks/etc.
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)
Academic Council	30/12/2021

14. Was the institutional data submitted to AISHE ?	Yes
<ul style="list-style-type: none"> Year 	
Year	Date of Submission
01/07/2020	15/02/2022
Extended Profile	
1. Programme	
1.1	18
Number of programmes offered during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
2. Student	
2.1	1329
Total number of students during the year:	
File Description	Documents
Institutional data in Prescribed format	View File
2.2	1078
Number of outgoing / final year students during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File
2.3	9843
Number of students who appeared for the examinations conducted by the institution during the year:	
File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic	
3.1 Number of courses in all programmes during the year:	750
File Description	Documents
Institutional Data in Prescribed Format	View File
3.2 Number of full-time teachers during the year:	323
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3 Number of sanctioned posts for the year:	4
4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	739
4.2 Total number of Classrooms and Seminar halls	95
4.3 Total number of computers on campus for academic purposes	1532
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	834
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 at programme and course level. Courses and programs are reviewed by considering feedback from all stake-holders. The Institute follows the guidelines issued by the regulatory bodies such as UGC, AICTE, affiliated university JNTU and Government while designing the curricula. The course structure and contents are oriented carefully to meet Program Outcomes (POs). Several Memoranda of Understandings (MoUs) with local and national industries relevant to programs have been signed to make students acceptable at local, national and global level needs. Also by conducting workshops, seminars and conferences periodically, faculties get an opportunity to interact with the academic and industrial experts which helps to design the curriculum more effectively.

The Institute integrated Choice Based Credit System (CBCS) and self-learning courses using MOOCS platform through Swayam, NPTEL, Course era, Edx etc. and some industry offered courses for all programmes. Value added courses to enhance communication, employability and entrepreneurship skills are included in the curriculum. Internships and live projects are also undertaken by students to enhance employability. The Institute established an Entrepreneurship Development Cell (EDC) that helps in developing entrepreneurship skills among the students. Curriculum revision is a continuous process as per the needs of the regulatory bodies, industry and stakeholders from time to time 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	https://www.vrsiddhartha.ac.in/curriculum-and-syllabus/

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

8

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

675

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

89

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

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

18

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

1.3 - Curriculum Enrichment

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

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

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

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

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year**35**

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**3006**

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**947**

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/Fdback_Action_Taken_Report_2020-21.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/Fdback_Action_Taken_Report_2020-21.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

1329

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)

787

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 which is 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.

The following measures are taken 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.
- Advanced Learners: Students getting CGPA > 7.75 are considered as Fast-Learners.

The following measures are taken to prepare the fast learners to make them ready to higher levels of learning.

- Choice Based Credit System (CBCS): Offered from second year onwards that enable
 - Full time internships/project works in industries.
 - To concentrate on job oriented trainings and focus on innovation.

- To participate in conferences/seminars, quiz competitions, paper/poster presentations and global certifications from online platforms
- Preparing for competitive examinations (GATE, GRE, IELTS)
- High Intensity Training: On 'C' and 'Data Structures' by Industry aiming high end packages.
- Self-Learning/MOOCs: Courses in curriculum facilitate to learn selected courses to acquire contemporary knowledge.

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
01/07/2020	4327	323

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: ICT Tools are used to create more 'learner-centric' environment.

Internships: The institute facilitates internships and industry projects through MOUs with the Local/National/Multi-National industries and premier institutions,.

Collaborative Laboratories: The institute collaborated with SIEMENS, DASSAULT, IBM, ORACLE, CISCO, NI Academy etc. that train the faculty

and students in industry relevant needs.

Industry Driven Competitions: The institute prepares the students for competitions conducted by industries such as Code Vita, Hackthon and Hackerearth, codechef etc., at national/global level.

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

MOODLE : Covers various teaching methodologies such as asynchronous teaching, group tasks, video lectures, PPTs, case studies, etc.

PARTICIPATIVE LEARNING

Workshops / Seminars: Students are trained on regular basis in modern trends and technologies by organizing workshops/seminars involving industry experts.

Group Tasks / Mock Interviews: Group discussions/tasks are conducted from second year onwards in soft skill courses. Mock interviews are conducted before the campus placements to improve confidence levels.

Model Development / Case studies: To experience and improve student practical skills and competencies.

Field visits: Every student undergoes field visits to identify real-time problems in the society and submit report.

PROBLEM SOLVING LEARNING

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

Innovative models: Take up real-world problems and develop new products/models with novelty and exhibit them in outside world competitions.

Term paper, Mini and Major Projects: Real-time/industry/society problems are given as group tasks which include experimentation, analysis, and design. The mini project or term paper may be extended as major project.

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

Computers with internet connection are available in the Digital library. It provides access to the online digital articles like IEEE Xplore and various online technical articles.

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

Moodle is an open-source learning management system (LMS) written in PHP and distributed under the GNU General Public License. Developed on pedagogical principles, 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
- Curricular details
- Academic assessments
- Course Materials
- All other relevant Academic, . Co-academic and Administrative data

The College uses LMS as one of the best practices in teaching and learning. All departments adopted the system for enhancing the student learning experiences. Following are implemented under this learning platform :

- Conduction of online exams during the pandemic
- Conduction of online class work, laboratory sessions during the pandemic
- 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

188

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.

- Academic calendar helps to coordinate the academic activities in an academic year.
- Preparation of Course plan : 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 to be used Assessment tools Contemporary developments Cognitive levels of learning MOODLE

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

323

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

134

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)

3361

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

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 permissible 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

Note of Outcomes in the Curriculum Books:

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

Question papers of Continuous Assessment: The questions of continuous assessment reflect the COs along with cognitive levels of learning. **Communication through Website:** POs are presented in the college website www.vrsiddhartha.ac.in

COs are presented in the webpage-department wise

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

Following are the methods for Assessment, Evaluation and Measurement of POs/PSOs
 Direct Assessment methods
 Indirect Assessment methods

Direct Assessment methods Continuous Assessment: COs are assessed

through Sessional & Assignment Examinations, Home Assignments. 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/PSOs. Semester-end Theory Examinations: The questions in semester-end examinations are mapped with COs Indirect Assessment Methods: 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/PSO assessment Alumni Survey : This survey is conducted annually through Google link or mail to Alumni towards PO and PSO attainments 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

1454

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

2.7 - Student Satisfaction Survey

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

<https://www.vrsiddhartha.ac.in/wp-content/uploads/2021/09/sss2020-21.pdf>

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

Up-gradation of Research facilities

- R &D policy, R&D ethics Policy and Innovations-Start ups policy are in place.
- Provided adequate facilities to researchers -i-7 computers with a work station,4 channel 350 MHz DSO,Digital Muffle Furnace, etc.,
- Purchased equipment and upgraded labs -Digital Phosphor Oscilloscope/Mixed Signal Oscilloscope,Nvidia Server(Super Micro SYS-1029GP -TR 1U Rack Server,2XIntel Xeon Silver 16 Core, 4X32 GB DDR4, 4X 960 GB SSD RAID card, NVIDIA Tesla V100-32 GB PCIE),CISCO Networking switches, Wi-Fi CISCO access points, sophos internet firewall, SMU, etc.,
- Subscribed e-journals & hard copies -74 e-journals, Elsevier AICTE ENGINEERING journals, 21 hardcopies available.
- Established instrumentation centre
- Collaborated with research institutions -Avantel, Indian Servers, ISRO, Anblicks, HCL technologies.
- Dean R&D for coordinating research activities
- Thorough assessment of R &D component in PBAS of individual faculty
- One of the major components in 2020-25 Strategic plan to achieve the R&D targets.
- Seed grant facility
- Promotion of student publications from their projects and financial support for Innovative projects.
- Incentives to all R&D achievements (Paper publications in Indexed Journals,Sponsored research projects, patent filing, etc.).
- Guidance from R&D experts to faculty.

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	No File Uploaded

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)

1533980

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	No File Uploaded

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

2

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)**

76.5

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

22

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://www.vrsiddhartha.ac.in/ongoing-projects/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

58

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	No File Uploaded

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.

1. R & D and Start up Policies

While identifying the need for innovation and incubation, the college realized that fragmented endeavors and a pragmatic ecosystem should be developed. In this connection, an R&D and start up policies are in place to promote innovation and incubation in tune with the corporate world.

2. Resources

A space of about 10,000 Sft. is created exclusively for the Technology business Incubation & innovation in addition to incubation centers with required facilities in all departments. The Institute has been making the seed money available for the faculty to undertake Innovative projects. The Institute is nurturing the innovation with the financial support of up to 50% to students.

3. Institute Innovation Council

The Institute established Institute Innovation Council (IIC) in 2018 with identified faculty and students from various departments as members. The college obtained four-star ratings in 2020-21 from Innovation cell, Ministry of HRD for various activities undertaken per the IIC calendar.

4. Collaborations

All departments have Innovation and Incubation set up with the involvement and guidance of Industry such as

- National Instruments

- World vision Technologies, USA
- Likwell Tele-systems Pvt ltd,
- Future Tech Instruments Ltd
- Electronics Industries Association of AP
- Bharath Sanchar Nigam Ltd,
- Efftronics Systems Pvt. Ltd,
- Indian Servers Pvt.Ltd,
- Sedibus Technology and
- Anblicks Ignite.

On the whole, the Institute has 57 MOUs to undertake collaborative activities for innovation, incubation, IPRs, Consultancy, etc.

5. Activities

- Every year, Innovative and entrepreneurship activities, including Hackathons, Idea competitions, Awareness workshops on IPR and Cognitive and Critical thinking, Leadership Talks, etc., are conducted as per guidelines of Innovation cell, MHRD.

- The Institute encourages the students to participate in Regional and National level Idea competitions conducted by the recognized bodies and institutions of the reputation such as IIC, IITH, IITB, LNT, SIH, AICTE, IEI, etc

- EPICS (Engineering Projects for Community Service) course, Mini and Major Projects have embedded the innovation as the nucleus of the curriculum.

6. Outcomes

The sustained efforts have resulted in the following accomplishments

1) About 50 innovation awards won 2) 7 start-ups have been registered by our students 3) Total Patents: 41, out of which Granted-13, Published-23 & Filed-5.

File Description	Documents
Upload any additional information	No File Uploaded
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

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

23

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

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

269

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

210

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

1829

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****31**

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy**3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)****20214469**

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**3394094**

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	View File

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

The Institute is undertaking extension activities in several areas- Technology-based services, Social and Community Services, Public health and safety, and Environmental protection, for the benefit of the community in adopted villages under Unnat Bharat Abhiyan. These service activities make the students practically to expose several social woes and develop empathetic orientation.

However, in 2020-21, following the COVID pandemic limitations, several extension activities organized by the Institute are related to precautions against COVID - use of masks, hand washing, social distance, and support to poor/needy/underprivileged people by distributing masks, groceries & donation of Automatic Hand Sanitizer to Govt. Hospitals.

In addition to the above, students are actively participated in the following activities

- Swachh Bharath activities - Removal of plastic waste from roadsides, Tree plantation in the villages & roadside, etc.
- Environmental protection: Eco-friendly Clay Ganesh idol distribution, rain-water harvesting, No vehicle day to promote mass transport & to minimize vehicular pollution
- Blood donation camps associated with International Red Cross, NTR Trust, etc., during COVID.
- Health-related activities: early detection of cancer in village people, pulse-polio vaccination program, health &

nutrition to the girl child, etc.

- Road accidents program in association with AP Transport Dept. & Substance abuse: education on road safety and accidents due to high speed & Pledge by the students. Awareness & education to the students & villagers on the ill effects of alcoholism and substance abuse.
- 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, etc.

File Description	Documents
Upload any additional information	No File Uploaded
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

0

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

18

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

1894

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

94

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)

34

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.

Institution has excellent infrastructural facilities spread over 24.05 Acres of land with 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 class rooms, 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, Glass board.

Smart classrooms are equipped with LCD Projector with Smart interactive board facility, Wi-Fi, Audio and Video facilities for effective Teaching learning process.

Seminar Halls are equipped with LCD Projector with white board facility, Wi-Fi, 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 industry for skill upgradation in advanced technologies in the last five years.

Library is also enabled with Wi-Fi and RFID Technology for self-issue and return. All Departments are having department library for ready reference

The entire campus is facilitated with mobility aware Wi-Fi connectivity and with abundant bandwidth. All computers are connected to campus network with 1Gbps fiber optic backbone.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/seminar-hall-conference-halls/

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 in the campus.

- Adequate facilities are provided for Cricket, Football,

Volleyball, Ball badminton, Khokho, Tennicoit, Throwball 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 meter eight lane standard track is provided.
- The college has 661.8sqm. Built-up area available to facilitate the indoor games such as Table Tennis, Badminton, Chess.
- Gymnasia are available at the department of physical education and in the women's hostel.
- Cardio exercise equipment such as cross trainer, treadmill are available at Girls' hostel.
- A 600 capacity auditorium is provided for Yoga.
- A course in Yoga is offered under humanities elective as part of the curriculum, as per the protocol of the Ministry of AYUSH.
- To promote cultural events among students in the campus, cultural clubs were constituted by the college.
- Different clubs are constituted at both department level and Institute level.
- Literary, Photography and Music clubs are available at the Institute level.

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)**885.94**

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

4.2 - Library as a Learning Resource**4.2.1 - Library is automated using Integrated Library Management System (ILMS)**

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

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

S.No

Phase

Period

Up-gradation

Amount Spent Rs.

1

Phase 1

1995 to 2014

Automated with CDS-ISIS software (free software supported by UGC.)

Free

2

Phase 2

2014

Augmented with Libsys (Ver 7.0) software,

6,10,450/-

3

Phase 3

2019

upgraded to Ver 10.0

4,15,360/-

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), which is an essential component in library automation. 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 management system shares a common database to perform all the basic function of a library, the system is integrated.

Digital Library:

- The institute has a digital library with 23 computers in the main library and 15 computers in the girls' hostel.
- It has collection of e-journals like IEEE, ASCE, ELSEVIER, DELNET and JGATE publications and e-books.
- The digital library is available on LAN.
- Previous years question papers, NPTEL videos, e-books, GATE Papers and e-journal articles are made available in the

digital library for easy access through Intranet.

- Two kiosk machines are available in the campus for OPAC services

ShodhuSindhu: Our College has N-List membership from 08.06.2009. Renewal for 2018-2019 also Paid and copy of the payment receipt enclosed as Annexure Note: Colleges who are member of NList programme need not register again for Sodhsindhu

E-books: Our College has purchased 105 e-books from Pearson Education Asia and McGraw Hill Co. with full book access basis. Through college URL the list was attached. This year we purchased 77 Titles from Wiley India on subscription basis of one year i.e. from 01.04.2021 to 31.03.2022.

Databases: DELNET, NPTEL Videos, Question Papers, News Paper Clippings, e-books (Downloaded from Other sources) Journal Articles, and OPAC (online Public Access Catalogue) facility available through Intranet services through Digital Library.

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)

2693627

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	View File

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

The college campus has a well-established state of the art IT-infrastructure and facilities. The campus intranet with 1 Gbps Multimode fiber optic backbone network, supplemented with Wi-Fi support various services such as website, campus management software, library information system, MOOCS courses, CC TVs, biometric devices, Learning Management System (LMS), online assessments, access to online learning resources and so on. The data center has 24 hours power backup and standby facilities to provide 24/7 services.

- Vision Net software is procured in 2015 and the existing ODELL software is upgraded in 2019 for language laboratory.
- An Electronic surveillance system with 236 cameras was deployed in the campus in 2018.
- The campus management software (CAMUS AIRA) is upgraded in 2018 to add more facilities for students like online payments and unified software to manage entire campus academic workflow.
- A learning management system based on Moodle framework is deployed in 2015 to facilitate asynchronous interaction beyond class room.

- Replaced existing biometric attendance system (Bio-enable) in 2019 with 16 devices of Matrix make with licensed reporting software.

WiFi availability:

- 130 Wi-Fi access points added to the existing 25 to supplement the campus network with wireless access facility. Two Wi-Fi controllers were also added 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, hostels are enabled with Wi-fi Internet access.
- Computers with Internet: 1600

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: General Management (incl. HA), Xstream Architecture, Firewall, Networking and Routing, Base Traffic Shaping and Quotas, Secure Wireless, Authentication, Self-Serve User Portal, Base VPN Options, RED Site-to-Site VPN, Sophos Connect VPN Client, Logging and Reporting, Sophos Central Management.
- Network Protection: Intrusion Prevention (IPS), ATP and Security Heartbeat™, SD-RED Device Management, Clientless VPN, Logging and Reporting, Sophos Central Management.
- Web Protection: Synchronized Application Control, Web Protection and Control, Application Protection and Control, Cloud Application Visibility, Web and App Traffic Shaping, Logging and Reporting, Sophos Central Management.
- Email Protection: Email Protection and Control, Email Quarantine Management, Email Encryption and DLP, Logging and Reporting, Sophos Central Management.

- **Web Server Protection: Web Application Firewall Protection, Logging and Reporting, Sophos Central Management.**
- **Expenditure for Firewall establishment Rs.15 lakhs in 2020-21& Rs.18lakhs in 2017-18.**

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

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4327	1532

File Description	Documents
Upload any additional information	No File Uploaded

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus A. 250 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: B. Any three 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)

834.94

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 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 procurement of material to resolve the problem.

Other Maintenance:

- Annual inspection of Electrical installations maintenance and safety of Electric supply is done by Directorate of Electrical Safety, Government of Andhra Pradesh.
- 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 the services including custom fabrication of cabinets, desks, installation of doors and windows, and frames for displaying banners.
- The functioning of college intranet and internet facility is monitored and maintained by the hardware technicians in association with Network administrator of CSE Department.
- Fiber Optic cable issues are maintained with the support of NettLinx Ltd.

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

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

3077

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	No File Uploaded

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

236

File Description	Documents
Upload any additional information	No File Uploaded
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/2021/12/Link-1.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

5427

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' grievances Timely redressal of grievances through appropriate

A. All of the above

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	View File
Upload any additional information	No File Uploaded
5.2 - Student Progression	
5.2.1 - Number of outgoing students who got placement during the year	
1261	
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	
97	
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	
149	

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

6

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 most of the facets of its functioning and in such spheres of activity which are statutorily permissible. Following committees have student members. 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

0

File Description	Documents
Report of the event	No File Uploaded
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

1. 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.

2. 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. Siddhartha Sahaaya scholarships started with 7 students during the academic year 2009-10 reached 130 students by the year 2020-21.

3. Academic and Professional Support

Alumni support the students academically and professionally in many ways like

- Internships
- Placements
- consultancy
- Sponsored Projects
- Participation in DAB, BOS & Academic Council for Curriculum development
- Delivery of Lectures/Lec-demos to the students in their areas of expertise
- Industrial student visits
- Training to faculty and students at their industry.

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

C. 5 Lakhs - 10 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.

Governing body was constituted as per the norms of regulatory bodies. Management and Principal actively participate in the Governing Body to ensure the policy statements, action plans are aligned for attaining the mission of institute disseminates the vision and mission to all the stake holders.

Principal frames the rules and regulations in consultation with

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

Deans take instructions from the Principal, implements them, and provides feedback, suggestions to the Principal. HODs are responsible for content delivery, effective teaching-learning process, monitoring of mentoring system, up-gradation and maintenance of equipment.

Senior 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: Curriculum Design

1. Involvement of various committees & their Role

- Department Advisory Board comprises of senior faculty of the department, Students, Parents, Alumni, Industry, and HOD. DAB suggests the new programs, advanced courses, establishment of

new labs for skill up-gradation.

- Program Assessment Committee plans and prepares the content of all courses, which includes new courses and change of course content as per the DAB suggestions. PAC also deliberates COs and POs and their assessment, delivery methods and the difficulties if any in the courses / content delivery.
- Board of Studies reviews and ratifies Programme structure, curriculum & syllabi designed PAC taking the recommendations of DAB.
- Academic council discusses and ratifies the institute level academic issues such as credits, Structure of curriculum and approvals of BOS of departments.

2. Involvement of stakeholders and collection of inputs involvement in the above committees and Collection of inputs from various outside stakeholders of reputation.

3. Curriculum design Process

- HOD and Program Coordinator, with help of deliberations of DAB & PAC and Module & Course Coordinators, identify the new courses and updating of the content as per the inputs of stakeholders and current requirements of Industry.
- Course and Module Coordinators are assigned the course planning and design under the supervision of Program Coordinator.
- The designed courses and content put before the BoS for approval.
- The approvals of BoS are sent to Academic Council for ratification and implementation. Any suggestions/changes in the curriculum are incorporated with intimation to all BoS members.
- Thus the new curriculum is implemented on approval.

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

Institutional strategic Plans:

- Strategic Plan 2015-2020
- Strategic Plan 2020- 2025

Objectives of Strategic Plans

- 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 National Level.
- Promotion of R&D culture - quality publications & citations, Funded projects, patents & consultancy in all depts.,
- Innovations & Start-ups
- To be one among the top FIFTY Private Engineering Colleges in the Country.

Main Components of strategic plan

- Graduation: Teaching, Learning & Resources
- Comprehensive Student Development
- Research, Innovation & Professional Practice

Strategy & Implementation

- Curriculum development to meet the current needs of the society & Industry
- Recruitment of Faculty with proven Knowledge, Teaching skills and R&D,
- Training for faculty in domain knowledge.
- Deputing faculty for Skill development based industrial training.
- Inviting industry experts for imparting practical knowledge
- Sponsoring the students to participate in National level competitions.
- Internships to students in industry and industrial training.
- CRT training, Mock Interviews - Placement Specific Training programs

- Organizing domain classes for competitive examinations
- Quality circles / Remedial / Bridge courses
- MoUs with Institutions / organizations in India and abroad
- Industry attached Laboratory
- Laboratory up-gradation
- Continuous assessment with higher order knowledge levels and skills

Major achievements of Strategic plan 2015-20:

KPI

2015

2020

Placements (>4LPA)

21

223

Qualification Up gradation

PhD: 52

Pursuing: 97

Ph.D:135

Pursuing: 130

Collaborative Labs

5

23

Sponsored Projects

2.94 Crs

4.17Crs

Publications Scopus/SCI

80

229

Patents filed /Published

2

84

Startups initiated

Nil

7

Professional bodies

8

15

ICT tools utilization

20%

100%

Model development

42

144

Student Paper Publications

73

176

Prizes won at National/Global student competitions

83

217



Student Internships

183

1342

Value added programs

7

36

The college successfully achieved the targets set in strategic plan 2015-2020. Further, a Five year (2020- 25) Strategic Plan has been proposed keeping in view the changing educational scenario and the expectations of stakeholders.

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/2020/01/strategicplan.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.

1. The Institution has a well-structured administrative setup. The Governing Body is the highest decision-making body, which gives constructive suggestions to the management for effective decision making and to meet the Vision, Mission of the college and the needs of the stakeholders. An organogram in the website represents the administrative hierarchy of the institute and decentralization.
2. Institute has 4 statutory (Governing Body, Academic Council, Finance Committee, Boards of Studies) 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.
3. Service rules, various policies such as recruitment, promotion are available for the functional aspects of the Institution.
4. The web-based grievance redressal mechanism, through the

college website, takes care of impartiality and confidentiality

5. 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.

All the recruitments are made transparent by duly advertising the posts in leading dailies / online and conducting interviews by involving external experts from NITs / IITs / Universities / Premiere Institutions.

File Description	Documents
Paste link to Organogram on the institution webpage	https://www.vrsiddhartha.ac.in/organogram/
Upload any additional information	View File
Paste link for additional Information	Nil

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

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

6.3 - Faculty Empowerment Strategies

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

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

Teaching Staff:

- Health cards to all the employees to get treatment at Pinnamaneni Siddhartha Institute of Medical Sciences, Gannavaram (Sister concerned medical institution) at discounted prices
- Laptops to faculty members with a subsidized price
- Loans at a low-interest rates through Employee's co-operative society
- Employees Provident Fund (EPF) and Group savings linked insurance (GSLI) for all regularized teaching staff
- Maternity Leave for female staff members
- Half-pay medical leave for staff members
- Special casual leaves for attending conferences and workshops
- Study leave for higher education and qualification improvement
- Financial support for Registration fees, Dearness allowance, Travel grants for faculty attending conferences and workshops.
- Recognition of the faculty with "Best Teacher Award" and Incentive
- Subsidized food at the canteen
- Incentives & additional facilities for R&D activities
 - Seed Money for Initiating Research Work
 - Incentives for publication in Journals and Conferences, sponsored research projects
 - Reduction of workload for the faculty during their final submission of the Ph.D thesis
 - Increments after getting Ph.D
 - Reimbursement of entire expenditure (TA, DA, accommodation, Local travel etc.,) for faculty interaction/discussion with R&D personnel and submission of research proposals at various defense organizations
 - Provision of space for faculty startups
 - Provision of exclusive computing facilities to all senior faculty and faculty pursuing research

Non-Teaching Staff:

- Health card to all the employees to get treatment at Pinnamaneni Siddhartha Institute of Medical Sciences, Gannavaram (Sister concerned medical institution) at discounted prices.
- 50% contribution for the Synd Arogya scheme of Syndicate Bank

for a policy of Rs.1 Lakh.

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

18

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

49

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.)

242

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

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

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

Internal Audit: The Principal constitutes an Internal Audit Committee. 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. The last audit was done in the Year 2020

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)

2.00

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 audits.

I) Income:

1) Tuition fee

2) Research grants

3) Consultancy

4) Alumni funds

5) Philanthropic contribution,

6) Interest on bank deposits

II) Expenditure:

Salaries and Benefits, Power and Fuel, Printing and Stationary, Postage and Telephones, Library-Periodicals and magazines subscriptions journals, Affiliations and Renewals, Travelling and Conveyance, repairs, replacements, maintenance, advertisement, audit fee, taxes and licenses, Miscellaneous, Furniture, Laboratory Equipment and Consumables, etc., Establishing Centres of Excellence and Industry Collaborative Labs. R & D and incentives, Startups, Skill Development and Innovations, Training & Placement, Examinations & Autonomous, 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)

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

1. Action plan was prepared to conduct the class work through digital platforms in pandemic period. Three methods were proposed

- Paper based teaching- Camera focusing on paper & write on it

and lecturing

- White board based teaching- Camera focusing on white board along with faculty, writing on it and lecturing.
- Teaching using tablet-stylus pen/slides.

Assign the teaching part to senior faculty and monitoring part of students to junior faculty.

2. Engaging the students and faculty during lock down through online courses- The College had entered into MoU with COURSERA platform and faculty & students are utilized courses on higher education, skill development technologies relevant to industry and employment and research.

3. Develop e-content in all branches of engineering by providing necessary facilities.

4. Brain storming session was conducted among Heads of the departments for finding the lapses and solutions for the betterment in NIRF & ATAL Rankings.

5. Departments are informed for Alumni identification and their diplomatic involvement in R&D and consultancy to strengthen existing Alumni cell.

6. Heads of the department are directed to inculcate the culture of innovations to their students & faculty for the preparation of more number of innovative models.

7. Required changes are brought in PBAS to meet the key performance indicators in NAAC, NBA accreditations, NIRF and ATAL rankings.

8. Head of the departments are directed to establish Incubation centers supported by identified industry

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.vrsiddhartha.ac.in/igac-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 is adopting a well-defined review mechanism of Teaching-Learning process, structures and methodologies of operation and learning outcomes, in line with strategic plan 2020-25, through

- Academic Audit
- ISO Audit
- Faculty assessment through PBAS
- Departmental performance
- Feedback from stakeholders
- Curriculum development through BOS meetings
- Question papers and answer scripts auditing
- Assessment of outcomes through PAC and DAB
- Review through statutory and non statutory committee

Academic Audit: All metrics of academic activity including Teaching-Learning process, learning outcomes are thoroughly reviewed in Annual Academic audit by the experts from reputed institutes such as IITs and NITs.

ISO audit mechanism: All the processes, structures & methodologies of operations are systematized and streamlined for effective implementation through ISO audit

It also reviews quality assurance policies, mechanisms and outcomes. The Structured feedback is analyzed and appropriate follow up action is taken to meet the standards.

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

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

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.vrsiddhartha.ac.in/annual-reports-of-igac/
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

VRSEChas taken several initiatives sensitizing the gender equity, in particular the women in the institute. Guest lecture on Health and Hygiene for girls to create awareness on healthy food and need of physical exercise: Counseling on Self presentation in interviews to face the challenges of corporate world: Webinar on Women Health and Safety with reference to balanced nutrient food, hygiene, causes of vaginal infection and treatment; a program on 'impact of drug addiction in students' by Circle Inspector, Patamata police station, Vijayawada on the occasion of a International day against drug abuse; National Girl Child Day are the initiatives taken by the institution during the year.

With reference to safety and security- Counseling, Common rooms for girls, separate Canteen space and dedicated hostels for girls are provided. 240 number of CC cameras, 5 Sanitary Napkin Vending Machines & 2 Incinerators are in operation. All the Common Rooms are having proper ventilation and with adequate furniture. Regular counseling programs by Anti- Sexual harassment committee & ICC and women's grievance cell are in practice. Women's day is celebrated every year, where inspiring women personalities are invited to share their life experiences to motivate the students.

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

B. Any 3 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. The collected decomposable waste sent to compost plant. The compost thus formed is used as organic fertilizer for the campus greenery.

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

B. Any 3 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

A. Any 4 or All of the above

5. Landscaping

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	No File Uploaded

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	No File Uploaded
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

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.

A. Any 4 or all of the above

**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	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	No File Uploaded

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

The institution has an inclusive environment where in human differences are appreciated and valued by creating an atmosphere that promotes a sense of belonging. In an inclusive environment, each person is respected and valued for his /her uniqueness and skills. The institute maintains complete transparency in admissions conducted on merit basis. The institution believes in equality of all cultures and traditions as is evident from the fact that students belonging to different caste, religion and regions are studying in the college without any discrimination. There is no segregation of students on the basis of their socio-economic, regional, lingual or communal background. Equal opportunities are provided to the students to participate in various activities conducted irrespective of their caste, religion and region. The institution has an NSS wing to inculcate a sense of unity, discipline and harmony. The activities undertaken by NSS and NCC units in our institution mitigate the socio-economic diversities and progress them towards a tolerant and harmonious living. Anti-ragging cell acts as a key factor in maintaining tolerance and harmony among students. Grievances redressal committee is also constituted to address the grievances among students to maintain harmony in the college. The girls are encouraged to take up leadership roles and participate actively in all student activities. Student placements in the campus with attractive packages for economically weaker sections indicate inclusive environment with reference to equality, communal, socio-economic and other diversities

Industrial visits expose students to the practical challenges and

also make the students from different backgrounds adapt to one another to create a tolerance and harmony in the organization.

"Samskruthi", a cultural club, organizes skits, plays, and competitions educate the students and make them aware of their social responsibilities and understand the implications of their actions. The institute promotes student cultural fests which promote harmony in communal diversities.

Students are encouraged to participate in various co-curricular (?) and extra-curricular (?) activities to make them mingle with one another and share their opinions and disagreements in a harmonious manner.

The institute provides poor and merit scholarships as financial support.

Central Library has a facility to issue books from book bank to SC/ST students. Commemorative days like Women's day, Teachers' day, Yoga day, and National festivals are also celebrated in the college. Organization of such events helps in promoting regional, linguistic, communal socio-economic and other diversities.

Note: activities in the AFOSEC is related to harmony enhancement. However the fest was not conducted because of COVID pandemic during the year.

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:

In all UG programs, constitution of India is included as a mandatory course to sensitize the students about constitutional obligations - rights and responsibilities. In addition the institute has conducted special lectures on move towards constitution where subject experts enlightened the students about importance of the Indian constitution. A program fundamental rights, Duties, Values and responsibilities of citizens as mentioned in Constitution of India by Smt. Koneru Anuradha is an example.

Our institution takes all possible initiatives in organizing various events, essay writing competitions on constitutional obligations, for moulding the students to become responsible citizens. The institute encourages the students to take part in blood donation camps.

The students have taken up many cleanliness and Plantation drives both inside the campus and nearby villages considering it as a responsibility of every citizen. Swachh Bharat Abhiyan has also been an important activity taken up by the institution and organized an awareness rally by the students and took a tour in adopted villages to create awareness among all. The institute has also conducted a voter awareness programme for all the students and were sensitized about their constitutional powers of voting.

Every year Republic day and Independence day is celebrated, where the 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	No File Uploaded

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

To maintain harmony and to make the learners aware of the national pride the National/International commemorative days are regularly being celebrated and observed in VRSEC.

- Every year the College celebrates National Festivals i.e. Independence Day on 15th August and Republic Day on 26th January with pomp and gaiety by hoisting the national tri colour in the College. After unfurling the flag, students sing the National Anthem and other patriotic songs.
- NSS Unit organizes the Teachers' Day every year on September 5 in memory of Dr. S. Radha Krishnan, former President of India. Eminent educationists and teachers are invited.
- The College organized essay writing and elocution competitions on the occasion of 150th Birth Anniversary celebrations of Mahatma Gandhi. "SwachhBharath - Swasth Bharat" a "Clean India Campaign" was organized in the campus as part of national drive on Gandhi Jayanti.
- Azad Day and National Education Day are held to mark MaulanaAbulKalam Azad's birth anniversary. Various literary, cultural and sports competitions are held during Azad Day celebrations.
- Run for Unity is organized on National Unity Day/Week commemorate the birth anniversary of SardarVallabhbhai Patel.
- PottiSreeramuluJayanthi is celebrated on the occasion of birth anniversary of Sri. PottiSreeramuluGaru on 15th December 2020.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	No File Uploaded
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

Best Practice - 1

Title of the Practice : Performance Based Appraisal System

The college is practicing PBAS to evaluate the annual academic and Professional contributions of faculty.

Objectives of the Practice

- To measure the performance of employees, provide feedback and assist them to improve their potential.
- To enhance teaching learning process, student projects, model developments and Innovation.
- To increase faculty academic qualifications and certification through online courses.
- To obtain better Industrial and sponsored research and quality publications
- To improve in participation and organizing Conferences/STTP/FDP/Seminar/ Workshop in association with premier institutions /research organizations and industry.
- Participation in administrative activities both at department, institute level and also in Co-curricular and Extra-curricular Activities.

The Context

The rapid technological advancements in academic and research environment of higher educational institutions demand multi-dimensional participation of faculty. Industry, regulatory bodies, UGC-CAS promotional guidelines have been considered in the design of Performance Based Appraisal System.

- Ineffective use of ICT Tools and online certification for effective Teaching learning process
- Less I-I-I and number of MOU's with Industry.
- Less number of publications in peer reviewed journals.
- Less participation of faculty in CEP's outside the institutes.
- To improve motivation for R&D proposals.
- Some faculties are reluctant to participate in administrative activities.

The Practice

PBAS evaluation is based on various parameters such as Curricular, Co-Curricular, Extra-curricular, R&D and Administrative activities on 1000 point scale. The weightage taken into consideration during the assessment and evaluation of these parameters varies depending on the cadre of the faculty.

PBAS format is updated periodically based on the expectations of regulatory bodies. Departmental Faculty Assessment committee (DFAC) is constituted by the Principal with four faculty members from different departments with a chairmanship of senior professor. This committee evaluates all the faculty in the college and the faculty have to submit the necessary evidences during evaluation of the filled format. These forms are scrutinized meticulously by the Appraisal Screening Committee (ASC) comprising of Principal as the Chairman, the DEANS as members and the Chairman DFAC as the member and submitted to the Faculty Assessment Board (FAB)

Evidence of Success

This practice made all the faculty to be alert and duty conscious in fulfilling the guidelines and satisfying the goals. It also motivates to become good teachers. In addition the college is experiencing.

- Improved academic culture among the faculty and participation in research and administrative activities.
- Use of ICT tools and MOODLE for effective teaching learning process.
- Improvement in Innovative model development practices.
- Institute received all India 7th rank by NPTEL.
- Research papers published in journals/conferences/Books chapters is increased
- Considerable improvement is observed in Research publications in peer reviewed indexed journals during last 5 years.
- Most of the faculty are participating and organizing FDPs,

Workshops, Seminars, Guest lectures and Conferences.

- Faculty along with students are participating in extension and societal activities like Blood donation camps, Tree plantation, donations to old age home and orphanages, social awareness camps in nearby villages

Problems Encountered and Resources Required

Problems Encountered

- Manual evaluation of huge number of faculty involves more time and effort.

Resources Required

- Automation is needed to reduce the time at every step.

Best Practice - 2

Title of the Practice: Technical Model Development

Objectives of the Practice

- To improve the technical skills of a student and enhance creativity and innovation.
- To apply knowledge and skills to identify and solve societal and industrial related problems.
- To convert the prototype into a commercial model leading to entrepreneurship development.

The Context

The innovatory change in Science, Engineering and Technology has completely transformed the measure of the success of a student from theoretical to applied knowledge. There is a huge transformation from theoretical/analytical projects to projects leading to solutions of real time problems. These aspects direct the technical institutes to extend the teaching learning process towards more practically oriented courses/activities. Innovation, incubation and IPRs are becoming the key performance indicators for the national / global recognition of technical institutes.

In the present scenario, to meet the objectives of National aim (or) Make In India, the students need to acquire both product development and entrepreneurship skills.

- Lack of solutions for societal Problems.
- To bring out inherent talent (or) IQ

The Practice

- Students from the 2nd year are identified to develop or fabricate innovative technical models under the guidance of faculty members.
- Idea churning sessions are organized by inviting industry experts and Alumni Entrepreneurs.
- The major uniqueness in this practice is the faculty and student together to update their knowledge
- The faculty will help and guide the students to develop the innovative models. The students are encouraged to plan and prepare proposals in the field of their interest.
- Encourages the student to work beyond the syllabus in every laboratory course
- The departmental research groups helps in taking up mini/major projects by students in developing working models.
- Incubation centers are established for model making with required facilities in every department.
- Provision in Budget proposal for financial support for model making.
- At least two models may lead to Patent from each department in a year from this Platform.
- The same labs maybe extended to Innovation & Incubation.

Evidence of Success

- 30%of the student projects are practically oriented than theoretical studies.
- Students and faculty are oriented to solve and provide feasible solutions for the society's real time problems
- The students are participating in industry driven National / Global level student Competitions.

Problems Encountered and Resources Required

Problems Encountered

- Transformation of students and faculty from conventional thinking to innovative ideas of societal requirements.
- Better coordination among the departments is needed which leads to develop interdisciplinary models.

Resources Required

- Training for both faculty and students by experts from industry and relevant bodies
- Departmental Faculty mentors to emphasize the need of model development.

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 identified to achieve 'VISION' are

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

Out of the thrust areas mentioned above to fulfill VISION and MISSION the Institute has a distinction of establishing several Centers of Excellence and industry collaborative labs under Industry Institute interaction program for training, skill up gradation and placement of students to realize the objectives of Outcome Based Education. The institute has established several Centers of Excellences (CoE) and Industry Collaborative laboratories and the details of laboratories are described below

CENTERS OF EXCELLENCE (CoE):

1. SIEMENS CoE

Thirteen laboratories were established in association with APSSDC as a PPP corporation to encourage skill-development and worth of Rs 25 Crores.

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

Collaborative effort of TIFAC, VRSEC and industries in the domain of Telematics worth of Rs 1.5 crores.

3 CoE in COMPOSITES

This centre is with DST- FIST to develop new materials which are economical and eco-friendly and has worth Rs. 60 lakhs.

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 (AATCE)
6. Video Analytics Research Lab
7. Anblicks Ignite Centre

Due to the above distinctiveness, the following outcomes have been achieved for the AY 2020-21.

Faculty Outcomes

- Total IPRs are 39 out of which 26 published and 2 are national granted and 8 are international granted.
- Grants received from government and nongovernment agencies for research projects Rs. 76,49,831.
- 14 Faculty were awarded with Ph. D in the college.
- Faculty with Ph. D qualification in the college are 134.
- Research papers published in the CARE journals notified on UGC website are 269 and books and book chapters are 210.
- Seed money received by faculty from the institution Rs.15,33,980 /-
- Revenue generated from consultancy and corporate training Rs 1,56,25,633.

Student Outcomes

- Placements for this AY are 1261+ and above Rs 4 lakh package is 327+

- Students won prizes/Awards in National and Global Competitions are 96
- Student Internships are 947
- Students Participated in National contests are 668.

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

- Proposed Five year strategic plan 2020-25
- Road map to execute the proposed Five year (2020-25) strategic plan & yearly bench marks to departments for achieving the targets.
- Increase in Hostel accommodation to students (Boys)
- Setting up of Sensor based energy conservation
- Initiation of Energy audit
- Planning of sports & cultural events to be organized & Identification and promotion of students for state & National level competitions
- Student projects - publications
- Frequent trainings to supporting staff (Technical/ Non-Technical)
- Industrial Training to faculty
- Institutionalization of R&D excellence award
- Annual planning of extension activities by NSS wing in collaboration with departments.