

**AQAR**  
**2020-21**

# Annual Quality Assurance Report 2020-21



**VIGNAN'S**

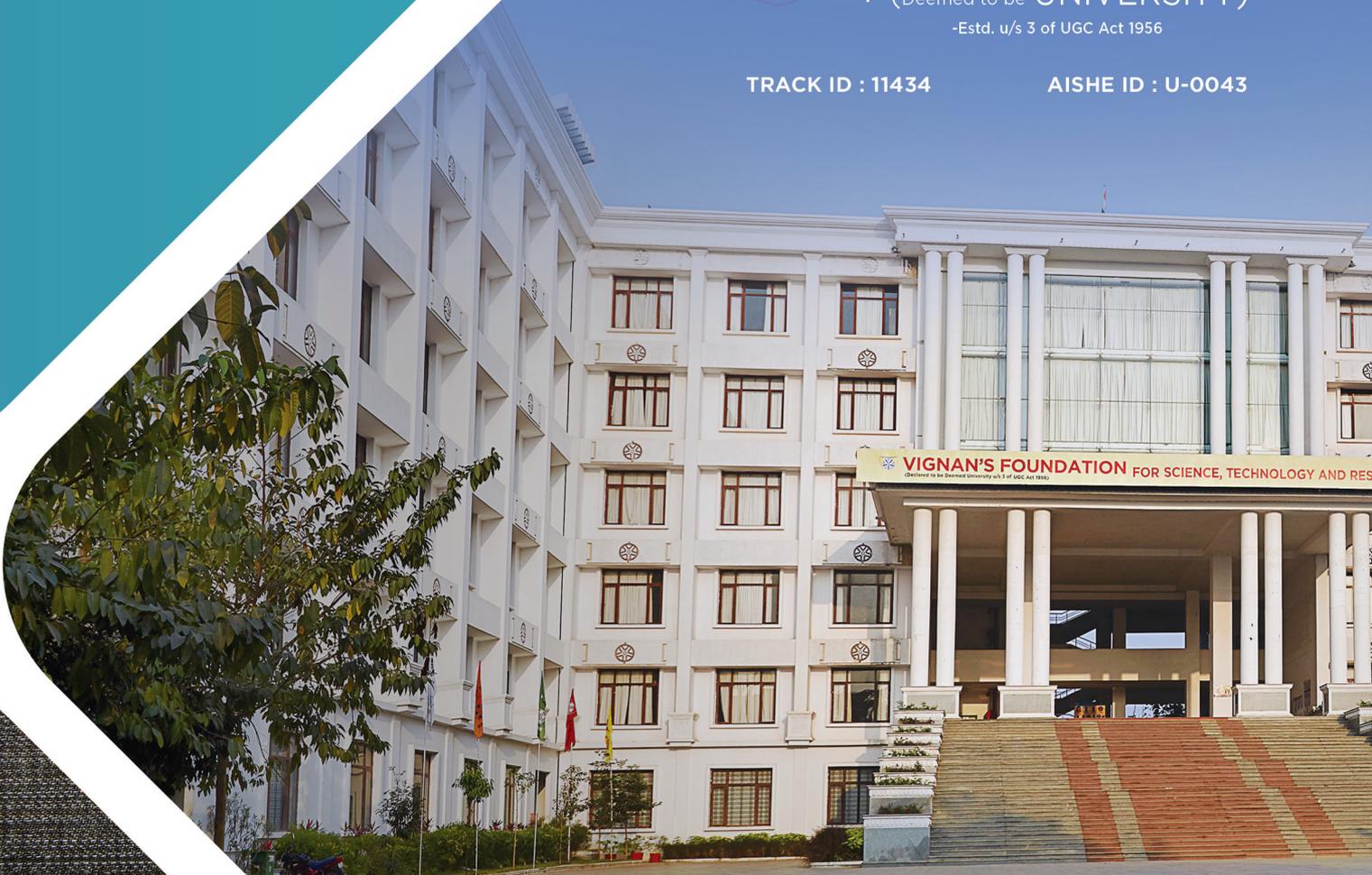
Foundation for Science, Technology & Research

(Deemed to be UNIVERSITY)

-Estd. u/s 3 of UGC Act 1956

TRACK ID : 11434

AISHE ID : U-0043





## YEARLY STATUS REPORT - 2020-2021

### Part A

#### Data of the Institution

##### 1.Name of the Institution

VIGNAN'S FOUNDATION FOR SCIENCE  
TECHNOLOGY AND RESEARCH

- Name of the Head of the institution **Dr.M.Y.S.Prasad**
- Designation **Vice Chancellor**
- Does the institution function from its own campus? **Yes**
- Phone no./Alternate phone no. **08632344710**
- Mobile no **9490143060**
- Registered e-mail **vc@vignan.ac.in**
- Alternate e-mail address **dean\_iqac@vignan.ac.in**
- City/Town **Vadlamudi**
- State/UT **Andhra Pradesh**
- Pin Code **522213**

##### 2.Institutional status

- University **Deemed**
- Type of Institution **Co-education**
- Location **Rural**

- Name of the IQAC Co-ordinator/Director **Dr M Ramakrishna**
- Phone no./Alternate phone no **08632347706**
- Mobile **9346993999**
- IQAC e-mail address **dean\_iqac@vignan.ac.in**
- Alternate Email address **director\_iqac@vignanuniversity.org**

**3.Website address (Web link of the AQAR (Previous Academic Year)**

<https://vignan.ac.in/iqacaqar.php>

**4.Whether Academic Calendar prepared during the year?**

**Yes**

- if yes, whether it is uploaded in the Institutional website Web link:

**5.Accreditation Details**

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
<b>Cycle 2</b>	<b>A+</b>	<b>3.49</b>	<b>2021</b>	<b>26/10/2021</b>	<b>25/10/2026</b>
<b>Cycle 1</b>	<b>A</b>	<b>3.02</b>	<b>2015</b>	<b>16/11/2015</b>	<b>15/11/2020</b>

**6.Date of Establishment of IQAC**

**10/05/2013**

**7.Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount
<b>Dr. K. Krishna Kishore, Dr. D. Vinay Kumar</b>	<b>DST-STI hub</b>	<b>DST</b>	<b>2021, 3 years</b>	<b>Rs 160,73,660</b>
<b>Dr. Sandeep Singh Rana</b>	<b>EDP</b>	<b>NRDC</b>	<b>2021, 1 year</b>	<b>Rs 2,80,000</b>

**8.Whether composition of IQAC as per latest NAAC guidelines**

**Yes**

- Upload latest notification of formation of IQAC

[View File](#)

**9.No. of IQAC meetings held during the year**      **2**

- The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website. (Please upload, minutes of meetings and action taken report)      **Yes**

- (Please upload, minutes of meetings and action taken report)      [View File](#)

**10.Whether IQAC received funding from any of the funding agency to support its activities during the year?**      **No**

- If yes, mention the amount

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

Secured NIRF 97th rank in University category Submission of IIQA and Self Study Report

Academic and Administrative Audit

Implementation of Digital Evaluation System Augmented e-content Facility

Mentored two colleges for the NBA process

Developed Faculty Progress Tracking System

**12.Plan of action chalked out by the IQAC in 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
Preparaion of NAAC Self Study Report for Cycle-II	Prepared and submitted in February 2021
Plan to establish center for Distance and Online education	Applied and obtained approval to offer four ODL/OL programs in Management
Plan to Participate in National and International accreditations and rankings	In order to assess the status of institute, regularly participated in various national surveys conducted by National Bodies like, NIRF, AISCHE, and AICTE-CII survey. The team IQAC preparing assessment reports time to time and submitted the data as per AQAR.Partcipated in national rankings NIRF, THE Week and International accreditation IAO
Plan to conduct awareness workshops on OBE	Organized two OBE workshops for internal and external faculty
Bench marking of academic and administrative activities and follow up action	Reached to set benchmarking

13. Whether the AQAR was placed before statutory body? **Yes**

- Name of the statutory body

Name	Date of meeting(s)
Academic Council	07/05/2022

14. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning? **Yes**

15. Whether institutional data submitted to AISHE

**Part A****Data of the Institution**

<b>1.Name of the Institution</b>	VIGNAN'S FOUNDATION FOR SCIENCE TECHNOLOGY AND RESEARCH
• Name of the Head of the institution	Dr.M.Y.S.Prasad
• Designation	Vice Chancellor
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	08632344710
• Mobile no	9490143060
• Registered e-mail	vc@vignan.ac.in
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• City/Town	Vadlamudi
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• Pin Code	522213
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• Location	Rural
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• Mobile	9346993999
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• Alternate Email address	director_iqac@vignanuniversity.org				
<b>3.Website address (Web link of the AQAR (Previous Academic Year))</b>	<a href="https://vignan.ac.in/iqacaqar.php">https://vignan.ac.in/iqacaqar.php</a>				
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<b>9.No. of IQAC meetings held during the year</b>			2		

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<b>11. Significant contributions made by IQAC during the current year (maximum five bullets)</b>		
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Academic and Administrative Audit		
Implementation of Digital Evaluation System Augmented e-content Facility		
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Academic Council	07/05/2022
<b>14.Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to Assess the functioning?</b>	<b>Yes</b>
<b>15.Whether institutional data submitted to AISHE</b>	
Year	Date of Submission
2022	14/03/2022

**16.Multidisciplinary / interdisciplinary**

A. Majors, Minors and Open Electives: VFSTR believes in the holistic development of the student. The Institute offers Engineering and Technology, Management, Sciences and Humanities programs under various departments . Taking advantage of these multiple disciplines and the flexibilities proposed in the NEP 2020. To provide opportunities for multidisciplinary education to the students. Students would be able to have more profound knowledge and understanding of a major discipline and opportunities to choose open electives across the programs.

(i) Major area of the Study: Students from the various programs will choose a major study area in one discipline. They will earn a certain number of credits as specified in the academic regulations. This will be the Major area of study in which the degree will be awarded.

(ii) Minor Area of Study: Students from the various department will be able to have a choice to opt required credits in another discipline of any department. Successful completion of these credits will earn them a minor in that discipline.

(iii) Open Electives: Students also have a choice to choose courses from across the disciplines based on their interests subject to meeting the prerequisites. The above system of Majors / Minors and Open electives provides flexibility to students to choose their various combinations of courses offered by the Departments.

**17.Academic bank of credits (ABC):**

Credit transfer is an essential step to promote student mobility. The credits of a student may be deposited in their ABC Academic account. This is a Government initiative and it will have a lead role in terms of introducing flexible pathways for higher learning and introduced in NEP. This initiative also provided a methodology for grade conversion under different credit frameworks so that students from an institution can transfer to another institution following different credit structures and grading patterns. VFSTR is in the process of proactively implementing the ABC in the institution. As per the initiative VFSTR has already uploaded 7200 records on NAD Digi locker.

**18.Skill development:**

In this rapid digital evolution era, the role of a university is crucial to produce graduates with the required skills. Current generation graduates need to collaborate with teams in a multi-disciplinary environment to solve complex problems and possess communication, critical thinking and technology skills.

A. A set of skill-based courses are integral to the UG Programs from the first year of the program. These courses are mandatory as part of the University core curriculum.

i. Emotional Intelligence

ii. Leadership Skills

iii. Quantitative reasoning ability

iv. Verbal ability and communication skills

v. IT Productivity Tools

vi. Venture Development and basics of Entrepreneurship vii. Sports

viii. Cultural Activities

ix. Personal Financial Planning

B. NPTEL Courses: All students have to register for NPTEL courses, Which are emphasis on emerging areas.

C. VFSTR Skill Development Centre: Skill Development Centre conducts various training programs for students in association with partner organizations for advanced skill enhancement.

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

Life Skills: To enrich the student's skills and make them exposed to diversified fields, Saturdays have been particularly dedicated to organizing co-curricular and extracurricular activities and training students in several activities such as Technical, Cultural, Film making, Yoga, and German Language, Painting, and Fine arts etc. In addition to this, special focus is carried. In addition to these, special focus is carried out on conducting activities that improve mental health (group counselling sessions), physical health (yoga and meditation activities) and

create awareness of Health and Hygiene.

Soft skills: are given utmost priority in any business context and these skills are becoming truly significant for business growth and career development of job aspirants. In this respect, we train and encourage our young aspiring students to become professionals with dynamic leadership qualities and managerial skills. The training provides holistic development of the students to see them as future dynamic managers.

The training ensures the development of skills such as :

- Critical thinking and problem solving
- Collaboration
- Agility and adaptability
- Initiative and entrepreneurialism
- Effective oral and written communication
- Accessing and analysing information
- Curiosity and imagination

Understanding importance of the soft skills in the global workplace and bridging the skill gap between the industry requirements and academics; Vignan's' Training Cell has designed a crash training course for the B.Tech 2nd year students. Course Duration: 20 to 25 hours in a semester. Upon successful completion of the course, every student will be awarded an appreciation certificate and provided feedback for the individuals.

#### **20.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):**

Well-defined Program / Course outcomes: All programs and courses offered by VFSTR are based on Program Educational objectives and learning outcomes. Each course has objectives and outcomes and is linked to the program outcomes and Program Specific Outcomes.

Blooms Taxonomy-based outcome assessments: Each of the formative assessment and summative assessment components are designed based on Bloom's taxonomy and to evaluate the course and program objectives. The evaluation criteria are mapped to the outcome

assessment for each course and program.

CO-PO attainment of all the programs are evaluated using various rubrics and tools. The institution initiated the calculation of the outcomes through a digitized platform.

Impact: The impact of the OBE, the programs like Bio-Technology, Computer Science and Engineering, Electictronic and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering are accredited by NBA for a period of 2020-2023.

#### **21.Distance education/online education:**

During the covid-19 pandemic period, the institution has effectively deployed ICT facilities and online platforms to continue the teaching learning process and academic sessions. It includes online classes, assignment submissions, laboratory examinations, project evaluations and end-semester examinations.

- 9000 hours of online classes for all programs during April to May 2020 ;
- 400 online examinations during June and July 2020 with video monitoring of all students.
- Blended mode of teaching from August to December 2020.
- 16000 hours. of online classes during May & June 2021.
- For the above online and blended mode classes, 9191 videos prepared for 480 courses, and loaded into VU MOODLE.

VFSTR is offering the management programs in Distance/Online Education such as Online Learning (OL) and Open Distance Learning (ODL) Jan 2021.

<b>Extended Profile</b>	
<b>1.Programme</b>	
1.1 Number of programmes offered during the year:	<b>52</b>
1.2 Number of departments offering academic programmes	<b>13</b>
<b>2.Student</b>	
2.1 Number of students during the year	<b>6368</b>
2.2 Number of outgoing / final year students during the year:	<b>1943</b>
2.3 Number of students appeared in the University examination during the year	<b>6266</b>
2.4 Number of revaluation applications during the year	<b>52</b>
<b>3.Academic</b>	
3.1 Number of courses in all Programmes during the year	<b>1183</b>
3.2 Number of full time teachers during the year	<b>577</b>
3.3 Number of sanctioned posts during the year	<b>577</b>
<b>4.Institution</b>	
4.1 Number of eligible applications received for admissions to all the	<b>30479</b>

Programmes during the year	
4.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	1366
4.3 Total number of classrooms and seminar halls	140
4.4 Total number of computers in the campus for academic purpose	3084
4.5 Total expenditure excluding salary during the year (INR in lakhs)	5852.75

## 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 is reflected in Programme outcomes (POs), Programme Specific Outcomes(PSOs) and Course Outcomes(COs) of the Programmes offered by the University

A well-structured Curriculum Design and Monitoring Committee is in place at departmental level with the HoD as Chairperson and supported by three other members.

Major revision for 18 academic programmes were undertaken during the academic year 2020-21, by collecting feedback from stakeholders. The curriculum revision is duly approved by BoS, Academic Council and BoM, consisting of senior academicians and renowned industry experts.

PEOs and PSOs are clearly delineated to meet objectives of Outcome Based Education (OBE) during curriculum design.

Apart from justifying the POs and PSOs of graduates, the curriculum is kept relevant to local, national and global needs.

The institution has added 553 new courses across all the programs of VFSTR during the academic year 2020-21 to keep abreast of emerging trends at national and global levels. Also, the curriculum is enriched with 109 value added courses, most of them

taught by industry experts, on topics relevant to industry. Technical seminars, workshops, and conferences are organized to explore emerging trends and career opportunities at national/global level.

Programmes in emerging areas such as CSE-AI & ML, CSE-Cyber Security, CSE-Computer Science Business Systems, and Robotics and Automation were newly introduced. BA-LLB and BBA-LLB programs were also newly Introduced.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

18

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 1.1.3 - Total number of courses having focus on employability/ entrepreneurship/ skill development offered by the University during the year

#### 1.1.3.1 - Number of courses having focus on employability/ entrepreneurship/ skill development during the year

1180

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 1.2 - Academic Flexibility

### 1.2.1 - Number of new courses introduced of the total number of courses across all programs offered during the year

553

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 1.2.2 - Number of Programmes in which Choice Based Credit System (CBCS)/elective course system has been implemented during the year

52

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 1.3 - Curriculum Enrichment

#### 1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

The institution explores and integrates through various ways, components related to Professional Ethics, Gender-Sensitivity, Human Values, Environment and Sustainability into the Curriculum. Towards this, courses on Professional Ethics, Constitution of India, Environmental Science etc., are offered as a part of the regular curriculum. A minor specialization on Humanities is offered for engineering students, which is in line with NEP-2020.

Aspects related to "Gender sensitivity" are imparted to inductee students' right from the Bridge Course. A regular course is offered in R19 on Professional Ethics, Human Values and Gender Equity and is carried forward in R21 Curriculum. Professional Ethics is part of the mandatory course on "Research Methodology" for Ph.D scholars.

Mandatory Environmental Studies course is being offered in R21 regulations. Three open electives courses in R21 Curriculum on "Bioplastics and Biocomposites Engineering, Design and Economics of Solar PV Systems, Environmental pollution and control are offered.

The above regular courses are supplemented by practical activities such as workshops being conducted at regular intervals, week long Gandhi Jayanthi celebrations with activities to learn on the practices of Mahatma Gandhi in the areas of Human Values and

**Ethics, celebration of cultural festivals, national festivals, and commemorative days.**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

**109**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.3.3 - Total number of students enrolled in the courses under 1.3.2 above**

**1.3.3.1 - Number of students enrolled in value-added courses imparting transferable and life skills offered during the year**

**6033**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.3.4 - Number of students undertaking field projects / research projects / internships during the year**

**5975**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**1.4 - Feedback System**

**1.4.1 - Structured feedback for design and review of syllabus – semester wise / is received from Students Teachers Employers Alumni**

- All 4 of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>1.4.2 - Feedback processes of the institution may be classified as follows</b>	<ul style="list-style-type: none"> <li>• Feedback collected, analysed and action taken and feedback available on website</li> </ul>
File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
<b>TEACHING-LEARNING AND EVALUATION</b>	
<b>2.1 - Student Enrollment and Profile</b>	
<b>2.1.1 - Demand Ratio</b>	
<b>2.1.1.1 - Number of seats available during the year</b>	
2760	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>2.1.2 - Total number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per applicable reservation policy during the year (Excluding Supernumerary Seats)</b>	
<b>2.1.2.1 - Number of actual students admitted from the reserved categories during the year</b>	
823	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>2.2 - Catering to Student Diversity</b>	
2.2.1 - The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners	
Faculty joining the institution, are trained on diverse teaching methods and ways to assess learning efficacy. The faculty	

orientation program trains faculty on methods of formative and summative assessments to evaluate learning outcomes through internal assignments, mid exams, mini projects etc and administrative activities and counselling techniques to support students.

Special programme for advanced learners:

Advanced learners are motivated to

- Self-learning through like SWAYAM, NPTEL, Coursera.
- Coaching for UPSC and other public services.
- Opportunity of international student exchange program with financial aid. (In AY 2020-21 3 students have completed internship in Nanyang Technological University (Singapore)).
- Guidance to prepare projects, publish papers in peer reviewed journals.

Special programme for slow learners:

About 15% to 20% of students, who are slow learners are provided with

- Academic performance reviewed after every mid-examination and students securing below 60% are identified as slow learners.
- Remedial and extra classes in identified courses.
- Digital content to aid self-study and easy preparation.

Outcome:

- 90% of students complete their courses in stipulated time
- 1056 students completed extra courses like NPTEL (442), Coursera (614) etc in the AY 2020-21.
- More than 29 (9 + 20) medals bagged by students in the AY 2020-21.
- 75-80% students secure jobs while on the campus.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Link For Additional Information	Nil

### 2.2.2 - Student - Full time teacher ratio during the year

Number of Students	Number of Teachers
6368	577

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 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

A blend of teaching methods catering to the differential learning styles of students is adopted to provide scope for experiential and participative learning besides problem-solving. The following measures are in place:

**Experiential learning:**

Practical sessions for skill development.

Intern/Intra Displanry projects made mandatory to promote experiential learning, entrepreneurial skills and student capabilities.

Semester-long internship in final year students.

Management students spend 2 to 3 weeks as field interns to study marketing practices.

**Participative learning:**

Class room participation and collaborative problem solving encouraged through methods such as group discussions, role plays, assignments, and project works.

**Blended Teaching Approach**

ICT tools are used for quick formative assessments and instant feedback on the concepts taught.

**Problem solving methodologies:**

Students are given real time problems and asked to apply critical thinking to devise solutions during projects and assignments.

Students follow a structured approach for solving the social problems.

Special eight hours/week training from II year onwards for coding competitions like Hackathons.

Outcome:

It has students to make a transition from memory based learning styles to deeper and active learning, as evidenced in their performance.

Developed the projects like Tree Climbing and Fire Fighting Robots, Crop health monitoring using UAV, Fish waste management.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.3.2 - Teachers use ICT enabled tools including online resources for effective teaching and learning processes during the year

**ICT Facilities Available:**

Being a technical institution, faculty at VFSTR adopts multimedia teaching aids for the teaching-learning processes. The following facilities are available to develop E-content:

- Total no of LCD projectors : 141
- No of Mi& Smart Boards : 60
- No of Light Boards : 08
- Editing Software Available : Camtasia.
- Faculty members have created E-Content and it is made accessible to students at MOOCs LMS Moodle.
- About 83% of teachers have created content using smart and glass boards and 17% of teachers have used other content development platforms like Camtasia and other software.

Special online digital teaching during Covid-19 Lockdown period:

During the covid-19 pandemic period, the institution has effectively deployed ICT facilities and online platforms to continue the teaching-learning process and academic sessions. From April 2020 to December 2020, the institute organized about 9000 hours of online instruction. 98% of students attended and completed their semester successfully. End semester online

examinations of all programs were conducted adopting the online examination.

**Impact:**

- Digital content prepared by faculty is used in consecutive semesters which save their preparation time for every class.
- These recorded lectures are useful resources for students to revise the content and learn at their own pace.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**2.3.3 - Ratio of students to mentor for academic and other related issues during the year**

**2.3.3.1 - Number of mentors**

506

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**2.4 - Teacher Profile and Quality**

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

577

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**2.4.2 - Total Number of full time teachers with Ph.D./D.M/M.Ch./D.N.B Superspeciality/D.Sc./D'Lit. during the year**

265

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.4.3 - Total teaching experience of full time teachers in the same institution during the year

#### 2.4.3.1 - Total experience of full-time teachers

6

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 2.4.4 - Total number of full time teachers who received awards, recognition, fellowships at State, National, International level from Government/Govt. recognised bodies during the year

11

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 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

Nil

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

8

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**2.5.2 - Total number of student complaints/grievances about evaluation against total number appeared in the examinations during the year**

0

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.5.3 - IT integration and reforms in the examination procedures and processes (continuous internal assessment and end-semester assessment) have brought in considerable improvement in examination management system of the institution

The examination system is well-established and completely automated for administering examinations, announcing results and awarding degrees in a time bound manner.

IT integration and the number of reforms undertaken have enabled to establish a well-defined, transparent and accountable system.

**IT Integration:**

- All phases of pre-examination like registration, exam fee payment, issuing Hall Tickets, seating arrangement are completely automated through in-house software.
- Examinations are proctored/supervised under CCTV surveillance to identify malpractices.
- ICT enabled Post Examination process like scanning answer scripts, encoding, allotment of evaluators, scripts evaluation, decoding, results processing, issue of marks memos with 8-10 security features, such as water marking, embossing etc., are in place.

**Reforms in examination procedures/processes:**

- CGPA limit to award 'first class with distinction' raised from 7.5 to 8.0
- All mid examinations considered for assessment.
- CO-PO mapping of all courses carried out and evaluation methods developed to assess PO attainments.
- Question paper pattern revised in accordance with the revised Blooms taxonomy, and in line with the course and program outcomes.

**Outcome:**

- Time taken for the announcement of results reduced to less than 10 days.
- Very less number of changes in recounting and revaluation, less number of malpractice cases.
- Lab examinations are being conducted in transparent manner.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 2.5.4 - Status of automation of Examination division along with approved Examination Manual

A. 100% automation of entire division & implementation of Examination Management System (EMS)

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 2.6 - Student Performance and Learning Outcomes

2.6.1 - The institution has stated learning outcomes (generic and programme specific)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents

The institution has clearly defined COs, PSOs and PEOs consistent with the Mission statement of the institute.

Attainments of these learning outcomes are integrated into continuous assessment and end semester examinations of evaluation process. They are widely publicized and uploaded in to institution's website (<https://vignan.ac.in>).

An example to illustrate the above process for engineering program is given below:

**Defining the Outcomes:**

In defining learning outcomes, following aspects are addressed:

- All course outcomes (COs) are reckonable and stated using action verbs (Bloom's taxonomy).

**Assessment Process:**

- Assessment method/tools are decided, considering the graduate attributes for every program and taking into account different parameters/learning outcomes to be measured.
- Assessment will be done for Theory Course, Lab Course, Mini project/ Project/Internship, Seminar course and Life Skill Activities.

**Dissemination:**

- Before commencement of academic year, decisions are taken in the department faculty meetings on the mode of teaching-learning keeping in perspective the COs, POs and PSOs.
- Learning outcomes are publicized through: -
  - Publications - Syllabus books, Calendar, Records.
  - Display - Class rooms, Laboratories, Corridors, Website.
  - Public discourse and explanation - Bridge course for first year students, inaugural sessions for second, third and final year students, workshops, alumni meetings, seminars, conferences and symposia, parent felicitation meetings etc.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

2.6.2 - Attainment of Programme outcomes, Programme specific outcomes and course outcomes are evaluated by the institution during the year

A well-defined process for CO and PO attainment has been in practice for the academic years.

**Defining the Learning Outcomes:**

- Curriculum is developed by outlining Course Outcomes and mapping with POs.
- Course coordinators map COs with POs and deploy suitable assessment tools with defined rubrics after the approval from departmental committees.
- Program Curriculum along with COs & POs is approved in BoS & Academic Council (AC).

**Assessing PO attainments:**

**Practices adopted to improve PO and PSO attainment:**

Academic practices enforced to improve PO and PSO attainment from 2015 to 2017 Batches: -

- Introduction of Periodic Assignments / Tests in CIE.
- Learning resources through ICT
- Encouraging and incentivizing, besides motivating self-study like NPTEL, Coursera

Professional practices in vogue to improve PO and PSO attainment from 2015 to 2017 Batch:

- On-line courses offered via NPTEL, EDX, Coursera etc.
- Students motivated to participate in Co-curricular & Extracurricular activities with OD facility

Improvements of the PO and PSO of last three batches of B.Tech, ECE (2015 to 2017):

- For the 2017 -21 batches the range of attainment is 2.08 to 2.45

Improvements of the PO and PSO of last three batches of B.Tech, CSE (2015 to 2017):

- For the 2017 -21 batches the range of attainment is 2.21 to 2.74

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**2.6.3 - Number of students passed during the year****2.6.3.1 - Total number of final year students who passed the university examination during the year**

1772

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 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 web link)**

<https://vignan.ac.in/agardownload/2.7.1-Student%20Satisfaction%20Survey%20Document.pdf>

## RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Promotion of Research and Facilities

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

Research Policy VFSTR has a well defined policy for promotion of research with the overall goal of emerging as one of the leading research institutes in the country. The above policy is frequently updated and well publicized through the institutional website. The policy is posted on the VFSTR website.

The essential elements of implementation of the research policy are as below:

Human Resources VFSTR has several faculty members with good research credentials and high impact factor. Institutional Framework

- Emphasis on research along with teaching
- Promotion of inter-disciplinary, multi-disciplinary and transdisciplinary research culture.
- Sabbatical leave for mid-career faculty for pursuing research/post-doc.
- About 10% faculty dedicated to research with minimum teaching load

#### Infrastructure and Funding

- Centres of Excellence with state-of-the-art facilities and equipment
- Attractive research fellowship provided to full-time scholars.
- Seed grants.
- Grants to attend seminars/workshops/conferences/patents/state/national/international awards.
- Technology Business incubators to promote start-ups.

#### Industry - Academia Linkages

- Promoting consultancy from industries for developing technologies.
- Collaborative research with industries to update skills.
- Involving experts from Industry in University Research Board.

#### Research and Societal Connect

- Sensitizing neighborhood communities on relevant technologies.
- Thrust on local and need-based research.
- Organizing national/international seminars/workshops/conferences.

#### Research Ethics

- VFSTR takes stringent action on any instance of plagiarism or alleged misconduct.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 3.1.2 - The institution provides seed money to its teachers for research (amount INR in Lakhs)

180.65

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 3.1.3 - Number of teachers receiving national/ international fellowship/financial support by various agencies for advanced studies/ research during the year

12

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 3.1.4 - Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows enrolled in the institution during the year

48

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.1.5 - Institution has the following facilities to support research**  
**Central Instrumentation Centre**  
**Animal House/Green House Museum**  
**Media laboratory/Studios**  
**Business Lab**  
**Research/Statistical Databases**  
**Moot court**  
**Theatre**  
**Art Gallery**

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**3.1.6 - Number of departments with UGC-SAP, CAS, DST-FIST, DBT, ICSSR and other recognitions by national and international agencies during the year**

2

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### **3.2 - Resource Mobilization for Research**

**3.2.1 - Extramural funding for Research (Grants sponsored by the non-government sources such as industry, corporate houses, international bodies for research projects) endowments, Chairs in the University during the year (INR in Lakhs)**

81.4

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**3.2.2 - Grants for research projects sponsored by the government agencies during the year (INR in Lakhs)**

163.53

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.2.3 - Number of research projects per teacher funded by government and non-government agencies during the year

0.36

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.3 - Innovation Ecosystem

3.3.1 - Institution has created an eco-system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge

The institution has a highly enabling ecosystem for Research, Innovation, Incubation, Entrepreneurship, and Technology transfer. This activity is led by the Directorate of Innovation, Entrepreneurship & Startup activities (IES), IPR- Cell, and Vignan Technology Business Incubator. The details are given below:

Directorate of IES: The IES is a creative hub that nurtures entrepreneurial endeavors on campus. MoU signed with The Indus Entrepreneurs (TiE), Hyderabad to scale up business ideas. MoU signed with National Research Development Corporation (NRDC), Govt., of India in 2020.

#### Activities

22 programs organized on entrepreneurship awareness / development / boot camps, ideation programs, skill and IPR seminars by the students of the E-Cell and IIC. few highlights are:

- Webinar on Business Plan preparation for Management students on 23rd Feb 2021.
- Organized a webinar on "Intellectual Property Rights on Academic Research" by Dr. Prof. H. Purushotham as resource person, Former CMD, NRDC, Govt. of India & DPIIT-Chair,

## Andhra University in VFSTR.

## Achievements/Impacts

- Company named 30M Genomics Private Limited, Incubated at VFSTR supported with a funding of Rs 25 Lakhs in January 2021.
- 50 of the patents were filed/published/granted in different areas which includes both national and International
- VFSTR Achieved ARIIA2021 under Band Excellent Category by GOI.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

22

#### 3.3.2.1 - Total number of workshops/seminars conducted on Research methodology, Intellectual Property Rights (IPR), entrepreneurship, skill development year wise during the year

22

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.3.3 - Number of awards / recognitions received for research/innovations by the institution/teachers/research scholars/students during the year

#### 3.3.3.1 - Total number of awards / recognitions received for research/innovations won by institution/teachers/research scholars/students year wise during the year

63

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

<b>3.4 - Research Publications and Awards</b>	
<b>3.4.1 - The institution ensures implementation of its stated Code of Ethics for research</b>	
<b>3.4.1.1 - The institution has a stated Code of Ethics for research and the implementation of which is ensured through the following</b>	<b>A. All of the above</b>
<ol style="list-style-type: none"> <li>1. Inclusion of research ethics in the research methodology course work</li> <li>2. Presence of institutional Ethics committees (Animal, chemical, bio-ethics etc)</li> <li>3. Plagiarism check</li> <li>4. Research Advisory Committee</li> </ol>	
<b>File Description</b>	<b>Documents</b>
Upload relevant supporting document	<a href="#">View File</a>
<b>3.4.2 - The institution provides incentives to teachers who receive state, national and international recognitions/awards</b>	
<b>Commendation and monetary incentive at a University function</b> <b>Commendation and medal at a University function</b> <b>Certificate of honor</b> <b>Announcement in the Newsletter / website</b>	<b>A. All of the above</b>
<b>File Description</b>	<b>Documents</b>
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>3.4.3 - Number of Patents published/awarded during the year</b>	
<b>3.4.3.1 - Total number of Patents published/awarded year wise during the year</b>	
<b>50</b>	
<b>File Description</b>	<b>Documents</b>
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

<b>3.4.4 - Number of Ph.D's awarded per teacher during the year</b>	
<b>3.4.4.1 - How many Ph.D's are awarded during the year</b>	
40	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>3.4.5 - Number of research papers per teacher in the Journals notified on UGC website during the year</b>	
884	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>3.4.6 - Number of books and chapters in edited volumes published per teacher during the year</b>	
<b>3.4.6.1 - Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings during the year</b>	
188	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>3.4.7 - E-content is developed by teachers For e-PG-Pathshala For CEC (Under Graduate) For SWAYAM For other MOOCs platform For NPTEL/NMEICT/any other Government Initiatives For Institutional LMS</b>	<b>D. Any 2 of the above</b>
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

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

Scopus	Web of Science
1953	2757

File Description	Documents
Any additional information	<a href="#">View File</a>
Bibliometrics of the publications during the year	<a href="#">View File</a>

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

Scopus	Web of Science
24	20

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	<a href="#">View File</a>
Any additional information	<a href="#">View File</a>

**3.5 - Consultancy**

3.5.1 - Institution has a policy on consultancy including revenue sharing between the institution and the individual and encourages its faculty to undertake consultancy

VFSTR has a well-defined policy on consultancy with industry and potential clients. VFSTR accepts the proposals on the above consultancy services and provides intellectual and laboratory resources on charge basis. VFSTR encourages its faculty for a good public outreach to study and identify the technical problem which can be taken up as consultancy services.

The details of consultancy services are as below:

- Dean R&D, or concerned Heads of Departments are focal points for interactions and negotiations with the customers.
- The charges on each consultancy service is decided on a case by case basis by the Dean R&D.
- The net revenue from the consultancy services will be shared

between employee(s) and the Institute in the ratio of 70:30.

- Any intellectual property arising out of the consultancy works will be jointly patented by VFSTR and the customer.
- Licensing for commercial use of IPs resulting from consultancy works will be jointly decided .

**Implementation:** Currently, a few departments are active in various consultancy works. VFSTR successfully completed 125 projects worth Rs.107.06 Lakhs in the Academic Year 2020-21. The revenue sharing with the concerned executives is a continuing process based on completion of works, realisation of amounts etc.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 3.5.2 - Revenue generated from consultancy and corporate training during the year (INR in Lakhs)

#### 3.5.2.1 - Total amount generated from consultancy and corporate training during the year (INR in lakhs)

107.06

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.6 - Extension Activities

3.6.1 - Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the year

Under the umbrella of the University Extension Activities Center (UEAC), VFSTR has planned extension activities to encourage student social engagement to support and inspire the broader community. In the neighbouring area Veeranayakunipalem, Selapadu, Vadlamudi, Vejendla and Suddapalli are adopted villages. Students conduct village and household surveys to determine the main problems and submit them to local administration or Unnat Bharat Abhiyan. Over the past few years, a number of outreach programs have been introduced in these villages, such as Water Quality Review, Swatch Bharath, Visiting Old Age & Orphanage Homes, Plantation Drives, Awareness Rallies, Eye, Dental & Health Check-ups, Academic support Classes in collaboration with local NGOs.

Based on the tests conducted in the near by beach at Suryalanka, DST sanctioned the project "A novel bioreactor for bio-degradation of marine plastic litter in coastal A.P." No: SP/YO/2019/1283 G.

The intervention of the institution:

- VFSTR has been supporting the project by providing space in laboratory.

Impact:

- Reduce the volume of single use plastic waste. There is also significant effort to replace materials derived from petrochemicals with those that can be made from biodegradable components.
- Biodegradation technique is environment friendly. It leaves nearly no harmless substances in the environment after treatment.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

**3.6.2.1 - Total number of awards and recognition received for extension activities from Government / Government recognised bodies during the year**

18

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

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

53

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.6.4 - Total number of students participating in extension activities listed at 3.6.3 above during the year

**5864**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 3.7 - Collaboration

#### 3.7.1 - Number of collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

##### 3.7.1.1 - Total number of Collaborative activities with other institutions/ research establishment/industry for research and academic development of faculty and students during the year

**1077**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 3.7.2 - Number of functional MoUs with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the year

**106**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### INFRASTRUCTURE AND LEARNING RESOURCES

## 4.1 - Physical Facilities

4.1.1 - The institution has adequate facilities for teaching - learning. viz., classrooms, laboratories, computing equipment, etc.

- VFSTR has a lush green campus spread over 83.44 acres, for stimulating a wide spectrum of activities mainly teaching-learning, research, Co & Extracurricular activities.
- 1,32,739 Sq.m built-up area (88,752 Sq.m for Classrooms, Labs. & Library, 43,987 Sq. m for hostels, guest house & health center), and a new academic block of 47,649 Sq.m in final phase of completion.
- The average area per student is 12.5 Sq.m against AICTE recommendation of 9 Sq.m.

### Facilities for Teaching-Learning:

- 128 well-ventilated, spacious classrooms with 60-65 seating and 36 tutorial rooms. 40% classrooms air-conditioned with smart/ glass/ MI boards; rest 60% ICT enabled.
- Laboratories equipped with functional workspaces and all amenities.

### Centres of Excellence (CoEx):

Four CoEs worth Rs.14.88 Crores for advanced research like 5G communications, Smart Antenna design, Composite materials, Advanced Manufacturing, Immunology, Advanced Bio Processing.

Eight Skill Development Labs worth Rs.6.91 Crores in association with AP State Skill Development Corporation and collaboration by M/S Siemens Corporation.

### Computing Equipment:

- Centralized computing facility in 1250 Sq.m 3084 systems with 2:1 student-computer ratio
- Exclusive University computer research center with High-end server (Specifications: HP blade servers, Intel Xeon -Platinum processor 56 cores(2 x 28 cores), 1.5 TB RAM, 12TB Harddisk, 2 x NVIDIA Tesla V100 32 GBGPU)

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

1. The institution endeavours to contribute skilled, knowledgeable and dynamic professionals who are well-balanced, capable of leading organizations and serve the society..

The all-round development of students is made possible through several cultural activities through clubs.

Students earn credits through optional club activities.

Provision for art clubs:

- Annual budget of Rs.25 Lakhs allocated for purchase/ hiring material like PA System etc.

Facilities for Cultural Clubs:

S.No

Name of the Club

Seating Capacity

1

Seminar halls

2500

2

OAT (H block)

1500

3

OAT (U block)

2000

4

OAT (A block)

1500

5

Multipurpose Auditorium

3000

Yoga and Gymnasium facilities:

- Two well-furnished Gyms in boy's hostel and girls hostel with modern equipment
- An open air gymnasium is being used by students in the off-class hours.

Utility Rate: Every day, the Gymnasium and Yoga facilities are utilised by 600 students

Sports and Games facilities:

- Sports facilities spread over an approximately 43,580 Sq.m. area, supported with 3 Physical Directors and 6 Coaches.
- Recurring expenditure on the sports facilities per year is approximately Rs.30-50 Lakhs.

Outcomes:

Students are groomed into:

- Physically robust and health conscious individuals, through campus sports
- Self-disciplined and socially responsible individuals - No untoward incidents of student unrest in the campus.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

4.1.3 - Availability of general campus facilities and overall ambience

A serene ambience backed up by excellent infrastructure with all

facilities such as library, Wi-Fi, remote access to e-resources, sports and games, medical and banking facilities, canteen, hostels, gymnasium, transport, etc., to meet all the needs of various stakeholders.

Excellent Green Campus:

- 50% of campus under green cover

Administrative Block: of area, 3257 Sq.m,

Hostel Facility: Availed by 35% students, with a built-up area of 35,150 Sq.m

Rain water and waste management:

- A two-acre water recharging facility available to maintain stable water index.
- Slurry from Biogas Plant planned to be used as manure for gardening.

Canteen and Shopping facility:

- Built with a cost of Rs 1.5 Crore, cafeteria has 400 seating capacity and offers multi-cuisine menu at affordable prices.

Medical Facility:

- A Primary health centre with two resident doctors and paramedical staff provides medical support for all members of the university.

Guest House: with 40 A/C executive rooms, 2 dining halls, Wi-Fi etc.,

Banking Facility: Campus branch of UCO Bank provides all facilities.

24X7 Water and Power facility

- R.O Water plants in every block.
- 3DG sets with total capacity of 950KVA.

40,000 Sq.m parking area and transport facility with 60 buses.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.1.4 - Total expenditure excluding salary for infrastructure augmentation during the year (INR in Lakhs)

2985.93

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

## 4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS) and has digitisation facility

### Automation of Library:

- NTR-Vignan Central Library, is managed with fully-automated, multiuser, integrated Library Management Software, called EZlib.
- Average number of students and faculty who use library is 1488 per day

### Digitization facility:

- Library has subscribed for 7127 e-journals at an annual cost of Rs.79.55 Lakhs
- 2762 e-books available for download and use.
- Computers installed in research carrels so that research scholars can independently operate and search for required materials.
- A number of CDs (6400) available with content on different subjects.

### Utility of ILMS and digital resources:

- Faculty access 7000 e-journals from IEEE/IET Electronic Library (IEL), Springer-Link, ASME and ASCE online journals, EBSCO, JSTOR, DOAJ, Cambridge University Press etc.
- Nearly Rs. 13 lakhs worth e-books can be accessed.

**Special initiatives of Library:**

- Every day library is moving to classes to facilitate students and faculty on
- Articles by experts in news papers
- Placements information
- Inclusion of library hours in students' time-table to motivate self-learning
- Periodic exhibition of new journals/books inside the library
- Mobile library within the campus
- Suggestions invited from various stake-holders to further improve services

**Impact:**

- Improved efficiency of library staff to provide more time and attention for student services.
- Automated and digitized library services promoting self-study in students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.2 - Institution has subscription for e-Library resources Library has regular subscription for the following: e – journals e-books e-ShodhSindhu Shodhganga Databases**

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**4.2.3 - Annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the year (INR in Lakhs)**

**130.49**

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 4.2.4 - Number of usage of library by teachers and students per day (foot falls and login data for online access)

1488

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 4.3 - IT Infrastructure

#### 4.3.1 - Number of classrooms and seminar halls with ICT - enabled facilities such as LCD, smart board, Wi-Fi/LAN, audio video recording facilities during the year

140

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.2 - Institution has an IT policy, makes appropriate budgetary provision and updates its IT facilities including Wi-Fi facility

- An IT policy is in place to maintain a secure, legal and appropriate use of IT infrastructure for free flow of information and maintenance of confidentiality and integrity.

#### Salient features of IT policy:

- Regular Maintenance and upgradation of IT systems in-line with their useful shelf-life and their obsolescence.
- Sufficient budget allocation to meet ever growing digital systems and services.
- Maintaining a healthy computer-student ratio of 1:2 and reach 1:1 by end 2025.

#### IT Policy Implementation

- 5000 network connections through LAN and Wi-Fi access available in the campus
- A powerful firewall installed to avoid misuse of internet facility.
- Institute is a member of National Academic Depository (NAD).

#### Budgetary provisions and utilization:

- An annual budget of Rs.100 Lakhs spent every year for up-gradation of IT Infrastructure.
- The university research computer facility is established at a cost of Rs. 63 Lakhs.
- NKN of 1 GBPS is hired for the university at cost of Rs. 50 lakhs for 10 years in 2010.

#### Expansion Plans (in the next five years) :

- Augmenting Learning Management System to enable distance learning.
- Special repository to accommodate Online and Open Distance Learning (ODL) inline with spirit of NEP2020,
- Digital content management - expansion of internal and cloud storage.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.3 - Student - Computer ratio during the year

Number of students	Number of Computers available to students for academic purposes
6368	3084

#### 4.3.4 - Available bandwidth of internet connection in the Institution (Leased line)

- ?1 GBPS

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

#### 4.3.5 - Institution has the following Facilities for e-content development Media centre

- A. All of the above

### Audio visual centre Lecture Capturing System(LCS) Mixing equipment's and softwares for editing

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Upload the data template	<a href="#">View File</a>

## 4.4 - Maintenance of Campus Infrastructure

### 4.4.1 - Total expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component during the year

481.15

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

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

The maintenance policy of VFSTR is:

- Physical infrastructure of classrooms and other facilities to be maintained in a clean and hygienic way.
- All laboratory equipment to be kept functional at all times.
- Power to be available 24x7 with required backup
- Preventive maintenance should be adopted maximally.

Well defined systems and streamlined procedures are available and are supported by a dedicated team of more than 100 members. The institution allocates 10-15% of its budget towards maintenance works.

Procedures of maintenance and utilization:

Identifying problems:

- Concerned maintenance team conducts periodical checks of buildings to verify power supply, water, any deviations in structures like cracks, Swelling of concrete, Internal cracking etc., and refers to the concerned section.

**Preventive Maintenance:**

- Periodic maintenance of facilities is scrupulously executed by persons responsible.

**Breakdown maintenance:**

- Breakdown maintenance of any asset, facility and equipment, -whether or not under AMC or under preventive maintenance - is attended in mission-mode.

**Modules :**

Electrical maintenance

IT infrastructure maintenance

Classrooms and Lab Maintenance

Library Maintenance

Furniture Maintenance

Sports Maintenance

Campus maintenance services

Optimum utilization is ensured for all facilities.

- A logbook is maintained in every laboratory with details on use and recording of any anomalies. Logbooks are periodically reviewed by HoD.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**STUDENT SUPPORT AND PROGRESSION**

**5.1 - Student Support**

**5.1.1 - Total number of students benefited by scholarships and free ships provided by the institution, Government and non-government agencies (NGOs) during the year (other than the students receiving scholarships under the government schemes for reserved categories)**

3748

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 5.1.2 - Total number of students benefited by career counselling and guidance for competitive examinations offered by the Institution during the year

6197

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.1.3 - Following Capacity development and skills enhancement initiatives are taken by the institution 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
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.1.4 - The Institution adopts the following for redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organisation wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees**

**• All of the above**

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

<b>5.2 - Student Progression</b>	
<b>5.2.1 - Number of students qualifying in state/ national/ international level examinations during the year (eg:NET/SLET/GATE/GMAT/CAT/ GRE/TOEFL/Civil Services/State government examinations)</b>	
<b>5.2.1.1 - 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</b>	
135	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.2.2 - Total number of placement of outgoing students during the year</b>	
1633	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.2.3 - Number of recently graduated students who have progressed to higher education (previous graduating batch) during the year</b>	
125	
File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
<b>5.3 - Student Participation and Activities</b>	
<b>5.3.1 - Number of awards/medals won by students for outstanding performance in sports/cultural activities at inter -university/state/national/international events (award for a team event should be counted as one) during the year</b>	
27	

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 5.3.2 - Presence of Student Council and its activities for institutional development and student welfare

#### Response:

The Student Activity Council of 80 members is elected annually from among the nominees and selections done through a democratic process involving a panel of faculty members and student representatives drawn from across all departments. It has a President, Vice Presidents, General Secretaries, Member Secretaries and a Treasurer, supported by a sub-structure of various committees, comprising 400 students, who plan, organize and execute a plethora of Co and Extracurricular events and competitions on campus.

SAC also participate in decision making on issues relate to student life and study on campus.

#### Contribution for Institutional development:

- Library software EZ Lib developed and updated
- Students promote and manage hosting of all the events. A team of students coordinates and volunteer their help to the Training and Placement Cell, which spearheads all training activities and placement process.
- Create awareness on Swacch Vignan to other students, and campaign for Swachtha in the neighborhood, thus improving the brand of the institution.

Contribution to student welfare to less privileged students, financially or in other ways, gender champions, service during emergencies and disasters, to relaxed and stress-free environment for the students, by organizing co-curricular club activities and helps the institution to maintain health records of the students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

28

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**5.4 - Alumni Engagement**

5.4.1 - The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and other support services during the year

Alumni are one of the key stakeholders of the institute and the institution enjoys a healthy rapport and lifelong relations with them. The VFSTR Alumni Association is a recognized body, registered as a society in 2013 under the Andhra Pradesh Societies Registration Act, 2001.

The alumni association is composed of:

1. President - Alumni student
2. Vice President - Alumni student
3. Secretary - Senior faculty member
4. Treasurer

The official Alumni Database is maintained at <http://vignanalumni.org>. Also, every department maintains its own database and are in touch with alumni through Alumni connect network, social networking etc.

A financial support of INR 20 Lakhs was contributed by the Alumni towards the development of Library, Labs, Research Centers, Medals and Awards etc. Alumni act as members of BoS, deliver guest lectures, facilitate internships, assistance in Placements, organize Industry visits and extend support to students seeking study abroad.

Alumni support in the following:

1. Academics

2. Placements and Internships
3. Entrepreneurship
4. Higher education

VFSTR is thus availing value from the Alumni Network to build its reputation, which depends on how successful its graduates are in real world

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

<b>5.4.2 - Alumni contribution during the year (INR in Lakhs)</b>	<b>A. ? 5Lakhs</b>
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File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 - Institutional Vision and Leadership

6.1.1 - The institution has a clearly stated vision and mission which are reflected in its academic and administrative governance

The main focus of the institutional vision is to produce internationally accepted, competitive professionals with emotional balance and social responsibility.

Academic activities to create internationally accepted professionals:

- Recruitment of well-qualified candidates with Ph.D. / PG qualifications from IIT's, NIT's and other premier institutions for faculty positions.
- Regular curricular revision for inclusion of courses in emerging areas
- Project-based teaching to promote innovative thinking and skill development
- Imparting of Computer Programming skills to make all students industry-ready.
- Special coaching and career counselling for GATE, GRE, IELTS, Civil services etc.

**Administrative measures to create internationally accepted professionals:**

- Participative management from top to bottom.
- Involving industry experts into Apex Bodies to bridge the gap between Industry and Academia.
- Collaboration with other academic institutions and industries.
- Facilitation of students for foreign internships/exchange programs
- Inviting industry experts to talk about recent technology trends.
- Introduction of credit based physical fitness course

Measures are taken to develop socially conscious, psychologically strong and emotionally balanced professionals

- Eminent personalities like Nobel Peace Laureate and Social Activist, Mr Kailash Satyarthi, Supreme Court Chief Justice, Mr M. V Ramana, Sri M.Venkaiah Naidu, Vice President of India, Karanam Malleswari, International weightlifter, and other distinguished personalities invited to inspire ethical values among students

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

Decentralized and participative style of management adopted for the smooth and orderly execution of all institutional activities. The four apex bodies, supported by 23 committees comprising faculty and students, with clearly defined functions helping in transparent and democratic functioning of the university.

The four Apex Bodies, with the Vice-chancellor as Chairperson are:

- Board of Management (BoM)
- Academic Council (AC)
- Finance Committee (FC)
- Planning & Monitoring Board (PMB)

50% of external members in apex bodies are drawn from industry and research organizations.

The BOM meets four times, a year, Academic council, three times, Finance committee twice/year, and Planning and Monitoring Board meets once/ year.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic plan is effectively deployed

### Response:

The Planning and Monitoring Board (PMB) of VFSTR provides perspective and direction for strategic planning and formulating the institutional long term and short-term goals.

The strategic plan of the VFSTR for the next five years is given under the following heads:

- Academic planning
- Research and Development
- Faculty
- Developing infrastructure for digital learning and environmental sustainability
- Work Culture

Improvement in the standard of publications (as one successfully implemented activity)

### Impact:

- Substantial increase in faculty publications from 1.1 to 4.3 per faculty from the first cycle to the second cycle of NAAC by 2021.
- Institute secured around 100 rank in NIRF.
- Institute recognized as a scientific and industrial research organization (SIRO) by the Department of Scientific and Industrial Research organization (DSIR), Govt. of India.
- The institute was granted 12B status by UGC in 2020.
- Five programs namely BT, CSE, ECE, EEE and Mechanical engineering accredited by NBA for 2020-2023

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

**Response:**

The institution observes transparency in the conduct of all its activities, adhering to policies, rules and procedures outlined in University Manual. It is guided by the apex bodies, BoM, Academic Council, P& M Board, and Finance Committee, to revise and refine its policies from time to time, responding to the changes in Higher Education.

Various policies approved by apex bodies:

- Admission policy
- Recruitment policy
- Promotion policy
- Financial policy
- Research policy
- Industrial training policy

Service Rules:

- Faculty and non-teaching staff are governed by service rules/ regulations.
- Effective checks and balances in the execution of powers by executives.
- Welfare measures implemented as per rules
- Vice-Chancellor is the final authority on any action not covered by Service Rules.

Impact:

VFSTR functions effectively and harmoniously, guided by policy recommendations of apex bodies and rational application of rules and procedures in all matters of governance from academics to administration.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

### 6.2.3 - Institution Implements e-governance in its areas of operations

#### 6.2.3.1 - e-governance is implemented covering following areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

A. All of the above

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has a performance appraisal system, promotional avenues and effective welfare measures for teaching and non-teaching staff

#### Response:

A well-defined appraisal system is put in place for identifying and rewarding good performers among teaching and non-teaching staff. For this, both Internal and External appraisal systems are adopted:

#### Performance appraisal system:

Faculty who completed one year of service were assessed on their performance, for a total of 100 marks, (50 marks for research, 25 for academics and 25 for administration including counselling duties.

#### Classification of faculty based on assessment:

- Category A: 85-100 Marks
- Category B: 60-84 Marks
- Category C : <60 Marks

#### Non-Teaching Performance Appraisal:

A committee headed by Dean ITLS, HoDs and Assistant Registrar evaluates the performance of non-teaching staff through annual confidential reports collected from respective Heads.

- Staff evaluated on various parameters like skill, work attitude, dedication, discipline etc.
- Employee efficiency is graded on 5 scales.
  - O- Outstanding,
  - A- Very Good,
  - B- Good,
  - C- Average
  - D- Not Satisfactory.

#### Career Advancement Scheme

Vice-Chancellor appoints a selection committee with experts from premier institutions and promotions are offered through committee recommendations.

Welfare measures are taken to promote the health, fee concession to the wards, gift vouchers for birthday, insurance and transport facility for teaching and non-teaching staff.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

471

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 6.3.3 - Number of professional development / administrative training Programmes organized by the institution for teaching and non-teaching staff during the year

61

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

#### 6.3.4 - Total number of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes Refresher Course, Short Term Course)

485

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

### 6.4 - Financial Management and Resource Mobilization

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

##### Response:

Admissions fee, tuition fee, and examination fee from students are the main source of funds for VFSTR. Additional funds from Government and other funding agencies such as DST, DBT etc., are obtained for research. The average expenditure per student mostly matches with average fee per student.

##### Financial resource mobilization policy:

- Domestic student fee
- International student fee
- Revenue from consultancy
- Industry and Alumni support
- Incubation centre for Start-ups
- Conferences and workshops
- Research grants
- Funds through Sponsorships

##### Overall expenditure:

The major heads of expenditure are as follows

- 35% salaries
- 10% for R&D

- 15-17% for student scholarships
- 20 - 25% for other recurring expenditure expenses
- Surplus 10 -15% utilized for augmenting infrastructure

Strategies will be followed for optimal resource utilization/ expenditure by developing own ERP module, Preventive maintenance by internal personals and make or buy decisions.

**Impact:**

With the above strategies of mobilization of funds and optimum utilization of resources, the institute is substantially growing in all fronts without compromising on quality.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**6.4.2 - Funds / Grants received from government bodies during the year for development and maintenance of infrastructure (not covered under Criteria III and V) (INR in Lakhs)**

26.5

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**6.4.3 - Funds / Grants received from non-government bodies, individuals, philanthropists during the year for development and maintenance of infrastructure (not covered under Criteria III and V)(INR in Lakhs)**

35

File Description	Documents
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>

**6.4.4 - Institution conducts internal and external financial audits regularly**

**Response:**

The Institution has a robust financial audit mechanism in place and conducts regular internal and external financial audits. There

is a full staffed finance department with administrative setup, functioning with strict adherence prescribed by accounting standards.

Both the internal and external audits are supervised by a certified Chartered Accountant, who routinely audit the Institute's accounts in compliance with statutory provisions

**External Audit:**

The ICAI certified audit firm M/s. Punnaiah & Co., Guntur is the external Chartered Accountant which audits the financial statements and submits annual financial reports. The auditors visit the Institute once every six months and carry out audits of account statements prepared by the Finance team of VFSTR. Any observations made by the team are duly rectified. At the end of every financial year, they certify the final accounts of the institution such as Income and Expenditure Statement, Balance Sheet and schedules forming part of the balance sheet.

The audited financial statements are displayed on the Institution website and this information is also submitted to the University Grants Commission (UGC) regularly.

**Impact:**

There are no serious observations by the auditors in the year and all audit reports are available.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**6.5 - Internal Quality Assurance System**

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes by constantly reviewing the teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals

**Response:**

**IQAC has steered the institution in initiating and strengthening**

many practices that has enabled in overall quality improvement. Specific emphasis is on teaching-learning process, methodologies and operations, and learning outcomes.

Quality improvements initiated by IQAC include:

1. Strategy for transforming new faculty into successful teachers through FOP/FDPs.
2. Mechanism for verifying faculty preparation and content.
3. Promotion of usage of ICT in delivery of lecture content.
4. Attractive e-content generation.
5. FOP was re- designed to sensitize new recruits on OBE Philosophy

Sustenance of Quality

- Mentoring and continues assessment of the new recruits is done by the senior professors.

Outcomes:

- More than 90% of faculty working efficiently with good feedback and research.
- Course Outcomes in respective courses fully attained.

Impact

With this kind of practice there is a gradual improvement in PO attainment of last three batches, which is very much evident from the success of students in completion of their degree within the stipulated period of time, and obtaining consistent placements.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**6.5.2 - Institution has adopted the following for Quality assurance Academic Administrative Audit (AAA) and follow up action taken Confernces, Seminars, Workshops on quality conducted Collaborative quality initiatives with other institution(s) Orientation programme on quality issues for teachers and studens Participation in NIRF Any other quality**

**A. Any 5 or all of the above**

<b>audit recognized by state, national or international agencies (ISO Certification, NBA)</b>	
<b>File Description</b>	<b>Documents</b>
Upload the data template	<a href="#">View File</a>
Upload relevant supporting document	<a href="#">View File</a>
6.5.3 - Incremental improvements made for the preceding during the year with regard to quality (in case of first cycle) Post accreditation quality initiatives(second and subsequent cycles)	
<p><b>Response:</b></p> <p>IQAC continuously monitors all activities related to academic, research, and policy implementation of VFSTR. The assessment of VFSTR by NAAC in the first cycle, and specific recommendations made by the Peer committee are studied carefully by IQAC, and incremental improvements are recommended in different areas as below:</p> <p><b>Academic Domains:</b></p> <ul style="list-style-type: none"> <li>• Project based curriculum</li> <li>• Introduction of value-added courses in emerging areas</li> <li>• Improvement of digital resources in the library</li> <li>• Research in thrust areas</li> <li>• Institute Industry interaction</li> </ul> <p><b>Administrative Domains:</b></p> <ul style="list-style-type: none"> <li>• Necessity of a strategic plan for effective administration</li> <li>• Strengthening of e-governance</li> <li>• NBA accreditation of 5 UG programs - Biotechnology, CSE, ECE, EEE and Mechanical engineering programs. NBA reviewed and accredited the five programs for a period of three years, 2020-21 to 2022-23.</li> </ul>	
<b>File Description</b>	<b>Documents</b>
Upload relevant supporting document	<a href="#">View File</a>

**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****Response:**

VFSTR promotes gender equity and provides equal access to both genders in all activities.

**Awareness on Gender Equity in Curricular and Co-Curricular activities:**

1. Sessions on Gender sensitization for women in I year bridge course
2. Course entitled "Human Values Professional Ethics and Gender Equity" introduced for all branches
3. Webinar on "Women Scientist at the Forefront of the Fight against COVID-19"
4. Webinar/Virtual Panel Discussion on How Can We Build a More Gender Sensitive Society
5. Games and sports competitions are held for women faculty and girl students separately.
6. Gender champions (2 boys & 2 girl students) selected every year to promote gender sensitivity on campus.

**Facilities for women on campus:**

- Each block of academic campus has special girls room and health care staff.
- Separate sports and games facilities in the girls' hostel.
- CCTV surveillance and Security staff.
- Nutritional food and counselling.
- Maternity Leave provided for women staff.

**Impact:**

- Active participation and exhibition of leadership qualities of girl students in all events
- Equal employment opportunities provided to both genders which is reflected in the placement record.
- 47% of admitted students in institution are girls, an evidence of gender equity

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>
Annual gender sensitization action plan(s)	Nil
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common rooms d. Daycare Centre e. Any other relevant information	Nil

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

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

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management**

**Response:**

The institution is a green campus that adopts eco-friendly practices for waste management (applying the 3R principle).

**Solid waste management**

- Segregation at source is routinely carried out on campus by using color coded bins for collection of organic, biodegradable waste, recyclable waste and sanitary waste.
- Utilization of Bio-degradable plates especially during the events.
- Green and clean campaigns are conducted once every three months.

**Liquid waste management**

- The rain water run-off is controlled and collected into water pond to improve ground water recharging.
- Roof-top rain water management system is in place.
- A Sewage Treatment Plant with a new wet lands concept is established with a 600KL sewage treatment capacity.

**Biomedical waste management**

- Sanitary, bio medical, and animal house related wastes incinerated inhouse.
- Large amount of biowaste, whenever generated, are disposed off taking the support of external service providers.
- E-waste related to computers and peripherals are disposed using buyback arrangements.

**Hazardous chemicals waste management:**

- The acids used in chemical experiments are highly diluted before disposal into sewerage lines.
- The hazardous chemicals used, in small quantities, are collected and periodically disposed off with due care in uninhabited waste lands.

**Impact**

- Green awards Institution
- ISO certification

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

<b>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>	<b>A. Any 4 or all of the above</b>
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File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

**7.1.5 - Green campus initiatives include**

<p><b>7.1.5.1 - The institutional initiatives for greening the campus are as follows:</b></p> <ol style="list-style-type: none"> <li><b>1. Restricted entry of automobiles</b></li> <li><b>2. Use of bicycles/ Battery-powered vehicles</b></li> <li><b>3. Pedestrian-friendly pathways</b></li> <li><b>4. Ban on use of plastic</b></li> <li><b>5. Landscaping</b></li> </ol>	<p><b>A. Any 4 or All of the above</b></p>
<p>File Description</p> <p>Upload relevant supporting document</p>	<p>Documents</p> <p><a href="#">View File</a></p>
<p><b>7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution</b></p>	
<p><b>7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:</b></p> <ol style="list-style-type: none"> <li><b>1. Green audit</b></li> <li><b>2. Energy audit</b></li> <li><b>3. Environment audit</b></li> <li><b>4. Clean and green campus recognitions/awards</b></li> <li><b>5. Beyond the campus environmental promotional activities</b></li> </ol>	<p><b>A. Any 4 or all of the above</b></p>
<p>File Description</p> <p>Upload relevant supporting document</p>	<p>Documents</p> <p><a href="#">View File</a></p>
<p><b>7.1.7 - The Institution has a disabled-friendly and barrier-free environment Ramps/lifts for easy access to classrooms and centres. Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.</b></p>	<p><b>A. Any 4 or all of the above</b></p>

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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)

**Response:**

Efforts of the institution to promote tolerance and harmony:

1. Institution conducts admission as per Reservation Policy of GoI.
2. Social temper cultivated among students through civil services classes to select students keen join IAS and IPS.
3. Constitutional provisions promoting equality, tolerance, harmony, gender equity disseminated at various student gatherings.
4. Communal harmony promoted through celebration of Dussehra, Ramzan, Semi-Christmas, Onam, Utti-Utsav etc.
5. Develop community service in students through organizing health camps for villagers to instil social responsibility and spirit of service.
6. Students encouraged to take up society centric projects which are exhibited during National Tech fest, like "Srujanankura"
7. Institution has minority, SC/ST and OBC welfare Cells with senior faculty members of different categories and religions as members.
8. Every committee has members of all faiths, cultural regions during conduct of events like srujanankura, Mahotsav etc.,

Inclusiveness irrespective of culture, region, community and other consideration:

Equitable representation of students and faculty in all 22 university committees to participate in administrative activities of institution.

**Impact:**

- Students from backward communities about 60 %
- 30% faculty from other states and nearly, 40 % from OBC/ SC/ST categories

- International Student Council organizes festivals and national days of various countries to promote cultural heritage.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

**Response:**

The institution generates awareness among students on constitutional rights and duties through various campus events and endeavours to shape them into responsible citizens.

- Compulsory course on Constitution of India.

**Awareness on Traffic rules**

- Awareness session on Safe Driving, Traffic Rules and legal implications of rash driving.

**Celebration of National days:**

- Republic day, independence days celebrated for 3-5 days conscientiously to sensitise students on constitutional obligations like rights, duties etc., and to develop nationalism.
- Veteran freedom fighters are felicitated on campus to develop patriotic spirit.
- VFSTR celebrates Gandhi Jayanthi every year for one week starting from 2nd October to foster values of non-violence, eradication of untouchability, hindu-muslim unity, and truthfulness among students and faculty.

**Nobel Peace Laureate -Dr. Kailash Satyarthi- To develop the spirit of compassion**

- VFSTR signed an MoU with Kailash Satyarthi Children Foundation for establishing Child Rights Centre in the university.

**Sensitization among Faculty:**

- On plagiarism in publications
- Respect for women

**Impact:**

- Students encouraged to take part in NSS, NCC, outreach and extension activities in neighbouring villages.
- Gandhi Jayanthi organizing for fostering Gandhian Values among staff and students.
- Sri Satyarthi praised students for their enthusiasm and understanding on contemporary social problems.

**7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic 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 Code of Conduct are organized**

All of the above

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

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

**Response:**

The institution organizes national and international commemorative days, events and festivals to promote a spirit of nationalism and patriotic fervour among students and faculty. Institute has constituted the "National and International Days Celebration Committee" comprising of faculty, staff and students. This committee organises national days such as Republic Day, Independence Day, Gandhi Jayanthi, Teachers Day, and Engineers' Day etc., and festivals of all faiths. Eminent personalities like veteran politicians, freedom fighters, retired defence personnel, public servants, and judges are invited as guest speakers to address the gathering of faculty and students. Elocution, Essay

Writing, Quiz, Debating and Patriotic song competitions are conducted for students. NCC cadets present the Guard of Honour. Birth anniversaries of eminent freedom fighters, social reformers and great Indian personalities are observed to commemorate their selfless-service and sacrifices.

#### Festivals:

Institution celebrates all cultural festivals like Pongal, Dussehra, Christmas, Ramzan, Id-ul-fitr and Onam with gaiety by involving all faculty and students. The themes and significance of these festivals are explained to nurture cultural value in students.

#### Impact:

The above celebrations and festivals promote national pride, cultural values, scientific temper, and religious harmony among students.

File Description	Documents
Upload relevant supporting document	<a href="#">View File</a>

## 7.2 - Best Practices

7.2.1 - Describe one best practice successfully implemented by the Institution as per NAAC format provided in the Manual

#### Response:

**Title: Faculty Development Programme Introduction:**

#### Context:

The university recruits teaching faculty by adopting a rigorous three tier process by the selection committees.

#### The Practice:

- Faculty development program by NITTTR, industry.

#### Evidence of success:

- 90% of the faculty are in "A" category having more than 90% of feedback from students continuously

**Impact**

This kind of process may be emulated on a large scale for the benefit of Indian education system as a whole.

**Title : Care for Health and Fitness of students**

**Context:**

- It is observed that 40 - 50% of young students of age 18 - 19 years admitted into the Institute do not enjoy robust constitution or enjoy good health in the holistic sense of the word.

**The practice:**

1. All the students are tested by Physical Directors and Students' health records are created.

**Evidence of success:**

1. Number of students with anemia / obesity / general health problems is found to be reduced from 40% to 5% by the end of the academic year.

**Impact**

This may be one of the good practices fit to be introduced in all other higher educational institutions to make the country a robust and healthy nation.

**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)

**Response:**

Access to quality higher education to the rural society leading to regional development.

**Context:**

Many studies and surveys in the country revealed most of the professionals are knowledgeable but their attitudes are not fully rational due to emotional imbalance. VFSTR recognized many events to formulate its Vision statement giving stress on development of

psychological strength along with high quality academics.

The Practice:

The institute implements its Vision through the following steps:

Step 1: Scholarships and Road map for the students

Step 2: Development of Communication and confidence

Step 3: Foundations for strong academics

Step 4: Development of Attitudes such as team spirit, inter-personal relations.

Step5: Psychological, Emotional Strength through Co- Curricular and Extracurricular activities

Step 6: Development of social consciousness

Step 7: Success of the Effort

With all above efforts the institution is happy that it is able to create access to quality education to the rural students of economically backward communities.

VFSTR justifiably takes pride that it has awarded Engineering and Management degrees to more than 10,000 students since its inception, thus leading to the improvement of quality of life of that many families in this region.

7.3.2 - Plan of action for the next academic year

Plan of action for the next academic year

- To prepare for the NAAC Peer team visit
- To offer B.Sc. (Hon) Agriculture program
- To expand University land area by acquiring 30 acres
- To participate in international rankings like QS-Ranking and THE Ranking
- To secure international accreditation (IAO)
- To apply and establish OFF CAMPUS at Hyderabad
- To offer diploma programs in cutting edge technologies
- To Participate in NIRF
- To mentor other institutes for securing NBA and NAAC