



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

V.S.M COLLEGE OF ENGINEERING

MAIN ROAD, RAMACHANDRAPURAM
533255

<http://www.vsm.edu.in>

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

January 2023

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

VSM College of Engineering (VSMCoE) was established in the year 2009 as a self financing engineering college by Ramachandrapuram Educational Society with a goal to promote excellence in Higher Technological Education and equip the students to face the challenges of the modern world in a successful manner. VSMCoE is one of the well performing institutes affiliated to JNTUK and is now on its successful pathway to transform the rural students as quality engineers who are not just technically qualified but also have adequate life skills for the benefit of society and country's development as a whole. VSMCoE is approved by All India Council for Technical Education (AICTE), New Delhi, and permanently affiliated to Jawaharlal Nehru Technological University Kakinada (JNTUK), Kakinada. The college is located in a sprawling scenic lush green area of about 7.5 acres of land with a total built up area of over 16209 Sq.mts. Apart from this, the college has tennis court, gym and other playgrounds. Most of the students are day scholars who are commuting to the college in the college buses. The college has a fleet of 16 buses and 2 cars. College also provides free transport facility to all the staff members including non teaching as a welfare measure. The College has enjoyed geographical advantage as it is well connected by air, rail and road. The Airport at Rajahmundry is just a 1hour 30 minute drive and the college campus is close to State highway (SH 102) making it accessible to several important centers in and around the town. Principal of the college takes guidance on Academics, administration & budget allocation from the Governing Body and implements them in consultation with the College Academic Council (CAC), consisting of all HODs and senior faculty. The decisions are taken at the CAC meeting and implemented by the HODs in all departments and overseen by the Principal, thus total decentralization of administration and policies are implemented at various levels. The college has very good Library facility with over 3743 titles and 20039 volumes to cater the needs of all branches of engineering.

Vision

To become a globally recognized institution in Technical education by way of excellence in academics, knowledge creation through inter disciplinary research and developing all round socially - responsible professionals.

Mission

To provide curriculum, aligned with institutional goals and objectives, relevant to regional and national needs and for overall all development of students.

To implement modern pedagogical methods in delivering the academic programmes with experienced and committed faculty.

To create vibrant ambience that promotes learning, research, creativity, team spirit, scientific temperment invention and Innovation.

To enhance institute- industry interface through collaborative research, consultancy. And needs of the society.

To generate and disseminate knowledge through training programmes /workshops / seminars / conferences / publications.

In house faculty members conduct training through assessment such as mock interviews, group discussions and all other corporate requirements to enhance the employability skills of the students.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- The institution is led by visionary & supportive Management team along with an enthusiastic Principal and an efficient group of Head of Departments.
- Qualified, enthusiastic and experienced faculty.
- Abundant trust of parents and alumni in VSM Group having strong brand image in Godavari Districts
- Good quality students
- Innovative teaching practices
- Student mentoring and support system
- Robust program for industry institute interaction (Training & Placement Department with excellent results)
- Industry specific add-on, value added training programmes
- Active Industry Innovation Council
- State-of-the-art Infrastructure with R&D Cell
- Hostels for Girls and Boys
- Near to the upcoming Port City of Kakinada and Well connected by rail, road and air
- Concessional Transportation facilities from distant places

Institutional Weakness

- Lacks academic freedom owing to Affiliated Status
- Insufficient funds for research and development
- Association with eminent Research Institutions requires a boost
- Unable to secure block grants due to private nature
- Sponsored Projects & Consultancy has to pick up
- Inability to attract major multinational companies for campus selections on a consistent basis
- Financial limitations for rapid progress, being an un-aided institution
- In ability to depute faculty for full-time research

Institutional Opportunity

- Strong brand image in Coastal Andhra Pradesh
- Government's support for economically weaker sections
- To apply for more research funds from funding agencies like AICTE,UGC,DST, etc.
- Possible job opportunities due to "Make in India" initiative
- Very good faculty retention
- Port City is opening opportunities for jobs

Institutional Challenge

- Majority students are from rural background with some of them being first generation literates in their families.
- English language proficiency levels of the students.
- Growing competition in nearby towns (Kakinada and Rajahmundry)
- Availability of experienced and Ph.D. faculty.
- Vast academic syllabus and rigid academic schedule.
- Huge delay by the Government in reimbursing the tuition fee for economically and socially weaker sections.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

VSMCE has established a clearly defined Vision and Mission which act as the guiding principles of the Institution. The institution has put in place well documented procedures for planning, execution, evaluation and enrichment of the curriculum. Following the AICTE and the Parent University guidelines, the curriculum has 65% core subjects, 15% of Basic Science, 15% Basic Engineering and 5% Management related subjects. For the effective delivery of the curriculum, the Institution has qualified and experienced faculty members who are oriented towards Student Centric Learning supported with ICT enabled class rooms, tutorial rooms and modern laboratories with state of the art facilities, Wi-Fi Enabled Campus, industrial training, e-Resources for Teaching Learning and Tools for student assessment. Formulated PEOs and POs for all Programs with focus on research oriented knowledge enhancement from industry resulting in improved employability. To know the current expectations of the industry and enrich the curriculum accordingly, VSMCoE has Academic Advisory Council (AAC) for the engineering departments. Senior managers from various MNC's, Industries and Alumni have been inducted into AAC to provide input for curriculum enrichment and also to address students on industry expectations. Academic flexibility is provided through elective subjects and also based on the curriculum enrichment suggested by the AAC, the Institution identifies various value added courses, enrichment courses, guest lectures, workshops and modular courses which further equip the students to enhance their employability skills and job prospects. For core subjects, faculty members identify content beyond syllabus and impart them in theory and laboratories. Curriculum change and enrichment is followed on the basis of the feedback. Along with the inputs from industry through AAC meetings, the institution constantly collects feedback from its Students, Faculty, Alumni and Recruiters and consolidates the same, communicates to the affiliating university for implementation during curriculum revision and for own curriculum enrichment by offering as add-on and certificate programs.

VSMCoE has taken initiatives to support students who had varied academic background. During admission the faculty assesses the learning levels of the freshmen students to identify the slow and advance learners and strategies are adopted to enrich their academic experience in the institution.

Teaching-learning and Evaluation

VSMCE has 140 faculty members on its roll with 17 of them with Ph.D. Degree. The sanctioned intake of students is 480 for UG and 72 for PG programs. The dedicated support provided by the management,

continuous and dedicated efforts made by the faculty members, staff, students and alumni contribute to the development of the core values of the Institution. The college implements transparent admission policies besides maintaining gender ratio and reservation policies as stated by the Government of A.P. Admission opportunities for differently-abled students is provided. Academic Calendar of the Affiliating University is followed and implemented. Preparation of lesson plans in advance and sharing with students through college portal is in practice. Classroom teaching is being supplemented through expert lectures, alumni interaction, seminars, workshops, mini-projects, field work, internship, hands-on training, self-study electives and e courseware (NPTEL, Stanford etc). Various supportive teaching methods including quiz programs, power point presentations, video clippings, hands on experiments etc., have been introduced, to make the T-L processes more effective. Activities are conducted for communication development to facilitate the students to become confident in public speaking, debates and get updated on the general affairs. Students are instructed to read through an English news paper and a set of students are invited to address rest of the class on a topic that they have read on that day. One thought provoking question is asked by faculty and answered in every period, to nurture critical thinking. To encourage scientific temperament, project exhibition is conducted every year and best projects are awarded. The Institution offers bridge courses, remedial classes and add-on courses to the needy students and provides support for advanced learners. Learning by doing is being practiced. Advanced Learners are identified, provided extra attention and prepared for placement with leading IT product and Core engineering companies.

Mentoring system for the students is implemented. The institution focuses on faculty development and offers training program on Teaching Learning Process, Industry Training and Research. A fully operational IQAC team conducts periodic audits to ensure effective T-L process. Faculty trains the students to participate in high level national and international competitions.

Research, Innovations and Extension

Research Committee is formed to promote the research activities. Process of promoting the research culture among the faculty and students encouraged by the Management. Interdisciplinary Thrust areas for research have been identified. As a self-financing college, faculty members face difficulty while seeking funds from various agencies. Seed money of Rs 5Lakhs to promote innovative and inter-disciplinary research projects granted by the management every year. Organization of project design contest every year for intercollegiate students and cash prizes awarded to adjudged winners. Promoting research activities and providing financial assistance for registration, TA etc to participating faculty & students by the management. 3 faculty members awarded with Ph.D in the last 5 years. above 160 faculty publications in the last 8 years. Policy for revenue sharing in consultancy has been fixed at 60:40, 12 MoUs signed for the benefit of the students. Institute Social Responsibility activities carried out through, NSS, and society oriented clubs.

Infrastructure and Learning Resources

The institution believes that providing a world class infrastructure would aptly complement effective teaching learning process. 16209 Sq mts of built-up infrastructure with excellent landscaping, Open Air Theatre and play courts. Installed Reverse Osmosis plant (2000 LPD). Smart Class Rooms with LCD Projectors, Internet connectivity. 60 Mbps Wi Fi Enabled Campus College has 380 computers and a computer – student ratio of 1 : 3. Air-conditioned seminar halls and auditorium are available. Modern Gym facility provided separately for girls and boys. Availability of indoor and outdoor sports facilities. Health Centre with beds available with visiting Physician and full time qualified nurse. Facilities like Bank, ATM, Book Store, Post Box, reprography

centre, and fully equipped gymnasium exists within the Campus. Maintenance of campus facilities through qualified engineer and estate officer.

Test & Repair facility for maintenance of IT hardware and software Project Laboratories available exclusively for every department with required facilities. Placement Infrastructure including 300 seating capacity auditorium, exclusive placement training labs with computers, Group Discussion Rooms and Interview Halls are available. Well stacked OPAC enabled library with 3743 titles and 19994 volumes, subscription to 60 journals/periodicals and subscription to DELNET and 40,000 JGATE e-journals. Separate and fenced courts for all sports activities Sewerage Treatment Plant, ATM, Dispensary, and Bank Help Desk. 40 CCTV Cameras are installed across the campus.

Student Support and Progression

Financial support by the management to the tune of Rs.15 lakhs every year to motivate meritorious, economically weaker students and students with exceptional sports record. Rs.25,50,000/- has been granted by management for students projects during the last 4 years. Implementation of Group Insurance to the students and faculty members Special focus and attention to advanced learners to get them placed in IT Product Companies and Core Engineering Companies with good pay packages. Effective Mentor-Mentee System with assistance from qualified and experienced counsellor to motivate slow learners to improve and do well in their academic performance. Several Students Clubs and Associations have been established to develop and nurture inherent talent and leadership qualities among the students.

Well staffed Training and Placement Team provides about 300 hours of placement oriented training over a period of 2 years to enable students get placed in good companies. Students progress have been intimated to the parents Placement Statistics: 156 students have been placed in the current batch. Publication of Department Newsletter, College Brochure and Newsletter. 15 on campus recruitment drives, 2 new companies have been added with 07 IT product and core engineering companies Highest salary offered – Rs.3.6 lakhs. 10 companies offering salary of Rs.3 lakhs per annum The Entrepreneurship Development Cell is interacting actively with industry. Few student entrepreneurs have been moulded by EDC Cell with technical, financial and marketing support. Coaching for Civil Services aspirants is provided by an experienced coach. Coaching is also facilitated for GRE, CAT, GMAT, TOEFL etc. that help in students pursuing higher studies. College has a registered Alumni Society. Alumni network is strong and active with alumni meet happening every year to promote their activities. Alumni are actively involved in placement activities. 10 teams participated in various national and international competitions and 6 teams won prizes during last 4 years. 100 above students secured prizes and awards in competitive events conducted by other colleges.

Governance, Leadership and Management

Forward looking management supporting day to day activities of Institution with cordial communication with faculty, students and other stakeholders. Principal providing guidance and ensuring quick decisions. Dynamic Leadership team comprising of Dean-Academics, Dean, Training & Placement Officer with vast experience in their respective fields. Decentralized departments with empowered HoDs with substantial academic experience. All Committee meetings are conducted regularly. Transparency in the academic and administrative practices. Feedback analysis, result analysis helps the Management. Financial Management through Department budget. Regular Internal and external audits for income and expenditure. Periodic counseling and skill enhancement training for non-teaching staff Availability of clearly documented organization structure with responsibility and

authority. Formal periodic reviews to monitor the performance of departments on academics and industry linkage. Formal and Transparent Annual Performance Appraisal system is in place to appraise the staff members on their performance based on UGC API.

Institutional Values and Best Practices

Institution strongly believes in innovations and best practices as means to achieve higher levels of maturity. Innovations College adopts the environment-friendly practices 150 KW Solar Photo Voltaic Power Generation is in place producing 800 KWH units of power daily. Class Rooms are ICT Enabled with provision for LCD Projectors, Internet and Intranet connectivity through Wi Fi. Established Process for identifying and motivating slow and advanced learners. Academic Advisory Councils for the Departments Computer Science Laboratories comparable with a Software company in ambience. Amenity centre with modern facilities Installation of sewage treatment plant Rain water harvesting, collection tank have been established. Established facilities in the areas of cloud computing and embedded systems Best Practices Implementation of Outcome Based Education. Adhering and Promoting Green Practices. Implementation of Campus Management System (MIS) for documenting all the events and storing them and its effective utilization to take corrective actions. Activity to enhance confidence and public speaking abilities of students. Objective evaluation of performance of Faculty and the Departments. Doing various types of training to improve the Competense and Employability of the Students.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	V.S.M COLLEGE OF ENGINEERING
Address	MAIN ROAD,Ramachandrapuram
City	RAMACHANDRAPURAM
State	Andhra Pradesh
Pin	533255
Website	http://www.vsm.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	P Venkateshwar	08857-246400	7729972281	-	principal@vsm.edu.in
IQAC / CIQA coordinator	M V Ramana	091-7729972264	7729972264	-	csehod@vsm.edu.in

Status of the Institution	
Institution Status	Private

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	

State	University name	Document
Andhra Pradesh	Jawaharlal Nehru Technological University,Kakinada	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC	29-01-2020	View Document
12B of UGC	29-01-2020	View Document

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	07-07-2022	12	
AICTE	View Document	07-07-2022	12	
AICTE	View Document	07-07-2022	12	
AICTE	View Document	07-07-2022	12	
AICTE	View Document	07-07-2022	12	
AICTE	View Document	07-07-2022	12	
AICTE	View Document	07-07-2022	12	
AICTE	View Document	07-07-2022	12	

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	MAIN ROAD,Ramachandrapuram	Rural	7.5	16250

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Civil Engineering	60	Intermediate	English	30	7
UG	BTech,Electrical And Electronics Engineering	60	Intermediate	English	30	20
UG	BTech,Mechanical Engineering	60	Intermediate	English	30	4
UG	BTech,Electronics And Communication Engineering	60	Intermediate	English	120	100
UG	BTech,Computer Science And Engineering	60	Intermediate	English	120	110
UG	BTech,Computer Science And Engineering Artificial Intilgence And Machine Learning	60	Intermediate	English	60	51
UG	BTech,Comp	60	Intermediate	English	60	48

	uter Science And Engineering Data Science					
PG	Mtech,Comp uter Science Engineering	60	B.E or B.Tech	English	18	5
PG	Mtech,V L S I And Embedded Systems Design	60	B.E or B.Tech	English	18	5

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Soci ety or Other Authorized Bodies	19				26				94			
Recruited	16	3	0	19	17	9	0	26	49	45	0	94
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				40
Recruited	15	25	0	40
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				26
Recruited	21	5	0	26
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	15	2	0	0	0	0	0	0	0	17
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	9	17	0	52	45	0	123
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	130	0	0	0	130
	Female	199	0	0	0	199
	Others	0	0	0	0	0
PG	Male	2	0	0	0	2
	Female	1	0	0	0	1
	Others	0	0	0	0	0
Diploma	Male	0	0	0	0	0
	Female	0	0	0	0	0
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	10	29	15	7
	Female	29	14	11	14
	Others	0	0	0	0
ST	Male	1	2	0	0
	Female	2	1	0	0
	Others	0	0	0	0
OBC	Male	74	111	95	48
	Female	84	73	49	37
	Others	0	0	0	0
General	Male	47	61	69	52
	Female	85	61	41	43
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		332	352	280	201

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	As VSMCOE is Affiliated Under JNTU Kakinada we are running the courses in regular classroom mode and we are not offering Distance Education online Education We have the facility Online Self learning for students through MOOCs and NPTEL and online classes are conducted through Online during the Pandemic Situation and Uploaded the recorded class videos nearly 250 in the College Youtube Channel and Nearly 6 Webinars are conducted during Padamic Situation for getting our students to aware about the trending technologies and there importance.
2. Academic bank of credits (ABC):	“Academic Bank of Credits (ABC)” is an academic service mechanism as a digital/virtual/online entity

	<p>established and managed by MOE/UGC to facilitate students to become its academic account holders and 2 paving the way for seamless student mobility. between or within degree-granting Higher Education Institutions (HEIs) through a formal system of credit recognition, credit accumulation, credit transfers and credit redemption to promote distributed and flexible teaching learning. our college has registered in NAD academic credits deposited in Academic Bank of Credits in NAD. “Academic Flexibility” is the provision for innovative and interchangeable curricular structures to enable creative combinations of Courses/Programmes in Disciplines of study leading to Degree/Diploma/PG Diploma/Certificate of Study offering multiple entry and multiple exit facilities in tune with National Education Policy-2020, while removing the rigid curricular boundaries and creating new possibilities of life-long learning. “Affiliated college” means any higher education institution approved by the affiliating university on the basis of the stipulated norms and guidelines by virtue of which it provides for a course/programme of study for obtaining any qualification from a university.</p>
3. Skill development:	<p>“Credit redemption” means the process of commuting the accrued ‘credits’ in the ‘Academic Bank Account’ of the students maintained in ABC for the purpose of fulfilling the ‘credits requirements’ for the award of Degrees/Diplomas/Certificates etc., by the degree awarding. ABC, as envisaged in the National Educational Policy-2020, shall be a national-level facility to promote flexibility of curriculum framework 4 and interdisciplinary/multidisciplinary academic mobility of students across the Higher Education Institutions in the country with appropriate “credit transfer” mechanism created through these Regulations. It shall be a mechanism to facilitate the students to choose their own learning path to attain a Degree/ Diploma/PG-diploma etc., working on the principle of multiple entry multiple exit as well as anytime, anywhere, and any level learning. VSMCOE offers various Soft Skills and Industrial Skills Programmes for our students .We have introduced Communication training ,campus Recruitment Training Programmes for each and every students for their Skill Development.Skill</p>

Development is the process of identification of the skills gap in youth and providing skilling training & employment benefits to them. Skill development programs aim to acknowledge the ability of the youth and extend their support by serving them with the proper guidance, infrastructure, opportunities, and encouragement that help them achieve their ambitions. Education and skills are essential for everyone, and they both walk hand in hand in everyone's career journey. They are the roots behind the economic growth and community development of a country. Therefore, both central & state governments are continuously making efforts to provide skill development to the youth with their skilling partners around the country. The benefits of Skill Development include increased business profits, improved performance, improved accuracy & quality, improved communication, complies with rules & regulations, improved recruitment & career opportunities, and development of good customer relations. Challenges Low intrinsic "aspiration quotient" resulting in low demand for vocational skilling programs. Employers cite the shortage of skilled employees as a constraint Skill development scenario is still evolving with different agencies handling the same agenda, absence of standards, lack of training capacity. VSMCOE Vision & Mission for Skill Development More than half of India's population is the driving force of the economy, and at VSMCOE, we adhere to providing skill development & enhancement programs for the youth. We impart skills training and provide employment opportunities to the young workforce, especially from disadvantaged backgrounds, and provide workforce solutions to the industry. This skill development program will help you succeed in different national-level programs like Skill India, Digital India, Make in India, etc. Vision: VSMCOE vision is to be the preferred skilling solution provider delivering excellence in skill training through empowered employees and a skilled workforce! Mission Statement: Our Mission is to provide a robust institutional framework at the Centre and States to implement skilling activities in the country. We aim to impart skill training and knowledge sharing that significantly increase our course participants' on-the-job productivity, thereby enhancing their contributions to the Nation's goals. We aim to build a

	skilled workforce in India to fulfill the gap between demand and supply.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	<p>Indian knowledge system is ancient, yet it is with a contemporary significance. It encapsulates all the elements with immediate relevance, such as diversity, openness, scientific-rationale, and logic, to its very core. It is an institutionalized pointer of culture and traditional values of different times and generations. The diversity in the present form is swiftly transferred from the cultural seeds spanning over many ages. The country known as the origin of one of the earliest developed civilizations, such as Indus Valley and Harappan, is no less than an ancient miracle when most of the learning philosophy was based on attaining a higher self through rightful knowledge. It is unfair to call it a promotion of the Indian knowledge system because it is the foundation of Indian Civilization. The knowledge system, which was founded on the recognized disciplines of Nyaya (logic), Vyakarana (language), and Mimansa (hermeneutics), unfortunately, lost its virtue before the modernized western system. This is the right time when we should consider what happened that even after being so developed, the glimpse of ancient Indian knowledge is rarely seen in today's knowledge system. What happened in history that other knowledge systems replaced the Indian knowledge system, and what is the new education policy going to do so that the ancient Indian knowledge system will get a new boost for inclusion? This paper discusses the diversity, significance, and promotion of the Indian Knowledge System with relevance under the broad headings of diversity, continuity, equity, learning systems, language, and vocation from as early as the 5th century CE. Our College Follows the curriculum designed by JNTUK Kakinada offering Professional Ethics and Human Values ,Intellectual Property Rights courses to students.</p>
5. Focus on Outcome based education (OBE):	VSMCOE is implementing OBE Since last four years and revised our Course Outcomes and Programme Specific Outcomes amd map them and trying to get best possible attainment with all this CO's and PO's with continuous Effort. We are organizing Workshops on OBE both offline and Online in regular basis for faculty. Outcome-based education is a system where all the parts and aspects of education are focused on

the outcomes of the course. The students take up courses with a certain goal of developing skills or gaining knowledge and they have to complete the goal by end of the course. There is no specific style or time limit of learning. The student can learn as per their choice. The faculty members, moderators, and instructors guide the students based on the target outcomes.

Benefits of Outcome-Based Education (OBE) for Students

1. Benefits of Outcome-Based Education (OBE) for Students
2. Every student has the flexibility and freedom of learning in their ways.
3. There is more than one method of learning
4. Reduces comparison among the students as everyone has a different target
5. Completely involves students taking responsibility for their goals

At present, Outcome Based Education or the OBE System is being widely used by leading institutions across the world. Many of the educators have developed a curiosity to understand the reason behind the ongoing learning transformation. Well, the reason is simple! Outcome based education is an educational methodology where each aspect of education is organized around a set of goals (outcomes). Students should achieve their goal by the end of the educational process. Throughout the educational experience, all students should be able to achieve their goals. It focuses on measuring student performance through outcomes. The OBE maps & measures students' performance at every step. The OBE model aims to maximize student learning outcomes by developing their knowledge & skills. The outcome based education system also referred to as standard based education, has proven to be a success in helping institutions measure their learning outcomes and at the same time enabling students to develop new skills that prepare them to stand out with their global counterparts. These factors can contribute to raising the education standard and aid institutions to acquire accreditation from esteemed accreditation bodies such as the (National Board of Accreditation) NBA Accreditation by improving continuously in the long run. On the contrary, when we speak of the traditional education system, it is highly dependent on theoretical aspects of learning. It repeats the humdrum way of teaching-learning process that just focuses on memorizing skills of students rather than skill development.

6. Distance education/online education:	As VSMCOE is Affiliated Under JNTU Kakinada we are running the courses in regular classroom mode and we are not offering Distance Education Online Education : We have the facility Online Self learning for students through Moocs and NPTEL and online classes are conducted through Online during the Pandamic Situation and Uploaded the recorded class videos nearly 250 in the College Youtube Channel and Nearly 6 Webinars are conducted during Padamic Situation for geting our students to aware about the trending technologies and there importance.
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Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Established in the year 2022
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Faculty coordinator Prof. A.Srihari Prasad, Professor, M.E. Dept. Smt.P. Sridevi, Assoc. Professor, EEE Dept Sri. T.Kumar Raju, Asst. Professor, M.E., Dept. Dr. G. Prasad, Assoc.Professor, Civil Engg. Dept., Prof. N.V.V. Subba Rao, Prof in ECE Dept., Dr.Y.Ratna Rao, Prof in CSE Dept., Student coordinator 1. A. Ramya, IV B.Tech-CSE, 193B1A05 2. D. Ganesh Vara Prasad, III B.Tech-ECE, 213B5A0422 3. G.V. Krishna, IV B.Tech, Mech, 203B50307 4. B. Bavana, II B.Tech, Civil, 213B1A0103 5. Ch. Jyothi, II B.Tech, EEE, 213B1A0210
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	1. Voter Registration camp for the eligible students in the campus. 2. Voter awareness camp conducted at various tehsil places in Amravati district. 3. Voter awareness camp conducted for disabled persons & senior citizen at various villages. 4. Voter awareness guest lectures conducted for in-house students.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to	1. Graduate Constituency voter awareness & registration drive conducted in East Godavari District. 2. Teachers Constituency voter awareness & registration drive conducted in M.R.O.

<p>advancing democratic values and participation in electoral processes, etc.</p>	<p>Ramchandrapuram, East Godavari District.</p>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p>	<p>Voter registration drive conducted at Institute for above 18 yrs of age students</p>

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
986	861	1030	1275	1296

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 140

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
140	138	145	136	151

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
252.06	135.21	202.81	242.74	429.04

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Response:

VSM College of Engineering (VSMCOE) is approved by AICTE and affiliated to the JNT University, Kakinada, Andhra Pradesh. VSMCOE is offering 5 UG Programs, 2 PG Programs in Engineering & Technology.

The Institute follows the curriculum approved by the BoS of JNT University and implements the syllabus with course objectives and evaluation schemes for every course. Our faculty members participate at various syllabus orientation events of the University while contributing in implementation feed back and revision of syllabus regularly.

Institute has an Academic Administration Committee (AAC) comprising of Principal, Heads of the Department (HoD's) and Internal Quality Assurance Cell (IQAC) that are responsible for planning, monitoring and implementation of overall academic activities like preparation of timetable, identification of learning gaps, industry expectations, emerging skills, knowledge enhancement, faculty training and designing of new courses in this backdrop, planning and conduct of programs for curriculum enhancement. The Program coordinator monitors the conduct of the academics.

- **Academic calendar** is prepared to fulfill the objectives of the curriculum delivery. VSMCOE is affiliated to JNT University, A.P., and follows the curriculum prescribed by it. The Institution Academic Calendar is finalized in alignment with the University calendar. Based on Academic Advisory Committee inputs, Co-curricular and extra-curricular activities are planned in academic calendar. Each department prepares their own academic calendar in line with the institute academic calendar.
- **Annual Calendar of events** is prepared which consists of plan for Internships, Field tours and projects. Guest lectures are scheduled for connecting the requirements of industry and academics.
- Before the start of every academic session, Principal conducts meeting with Vice- Principal, IQAC Coordinator, Heads of all the Departments, and finalize **Academic Policy** which covers following points:
 - **Teaching Load Distribution** (theory and practical) is appropriately allotted among the faculty members. Competency mapping is undertaken at department level to ensure that most suitable teachers handle the courses based on their specialization and experience.
 - **Time table** is prepared as per the teaching scheme of JNT University and as per department requirements by the Time-Table Committee. Time table is prepared at the *department level - teacher wise - class wise* as a matrix structure. Students are made aware of commencement of semester through notice and SMS.

Preparation for Course Delivery: Teaching Plans (Theory & Practical) and Tutorial Plans are prepared by the subject teachers before the start of every semester. Lesson plan is prepared by the subject teacher prior to the delivery of lecture, who also prepares the lecture notes/course handouts for all topics in the curriculum and devise the assignment topics and tutorial problems and get the approval of the CC Head, HoD and Principal. Individual faculty uploads Unit-Wise Teaching Plan in college website and LMS before commencement of semester.

for the complete write up please click the link:

<https://www.vsm.edu.in/pdfs/C-1/Finaliised%20QLM%201.1.1.pdf>

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years

Response: 78

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years

Response: 97.69

1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
961	845	1027	1239	1250

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

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

Response:

Response:

The JNT University curriculum includes value added courses such as Gender equality, Environmental consciousness and sustainability, Human Values and Professional Ethics into the regular Curriculum. Institute organizes various activities like awareness programme on Human Values and Environmental Sustainability. Final year students are encouraged to take projects which address interdisciplinary issues viz. Green energy, clean and green manufacturing, eco-friendly and sustainable manufacturing, low cost green houses, etc. VSMCOE offers this wide range of courses to its students to mould them into all round competent professional based on their interests and inclinations.

Professional Ethics and Human Values:

As per the Government of AP and JNT University norms institute follows reservation policy for Girls students. Professional Ethics and Human Values course are offered as per regular curriculum of JNT University to all branches of Engineering. This course focuses on human values and discusses engineering ethics, explains safety and risk factors, responsibilities and rights of engineers and addresses global issues, computer, and environmental ethics

- All the students and faculty members are expected to follow the Institute's code of ethics which is published in the calendar and the website for dissemination
- Students are encouraged to join various Professional societies which create awareness about their subject related ethics
- Code of ethical practice and plagiarism for research is followed strictly by the faculty
- The institute has 10 Technical and Non-technical Clubs for enhancing human values and social activities of the students
- NSS is included as a part of the curriculum which makes the students understand the human values and do social works
- To instill the ethical values among all the students, PSO have Professional Code of Ethics included

Gender Equality:

VSMCOE gives equal opportunities to both the genders in terms of admissions, training, placement, co-curricular and extra-curricular activities, NSS, NCC, Sports and Cultural Clubs, so that gender issues do not arise. The institute has constituted various committees including Women Empowerment Cell, Women Grievance & Redressal Committee. These committees help in promoting issues/programs on gender

equity, promoting leadership qualities in women and also handle issues related to safety and security of girl students and lady staff.

Girls and boys participate in various co-curricular activities such as paper presentations, group discussions, Musical night and technical quiz programs. Both boys and girls are made members of various clubs associated with academic, co-curricular and Extra-curricular activities. Separated dining hall is allotted for both boy and girl students. Women's day is celebrated where both students and staff participate. Higher administrative positions and many faculty Cadre are held by women. Faculty Ratio (Female: Male) is 47:52 in the Institute.

The College maintains suggestion/complaint box where the students can drop their complaints or suggestion to be given to the college. It is observed that the complaints regarding sexual harassment in the college are NIL due to effective implementation of discipline in the college premises. Complaint from student regarding Canteen, Hostel facility, institute properly discuss and resolve with mutually agreed solutions.

for the complete write up please click the link:

<https://www.vsm.edu.in/pdfs/C-1/1.3.1%20qlm.pdf>

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 93.41

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 921

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 52.87

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
337	300	229	253	245

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
516	516	516	516	516

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)

Response: 57.05

2.1.2.1 Number of actual students admitted from the reserved categories year - wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
174	163	120	138	141

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
258	258	258	258	258

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2 Student Teacher Ratio

2.2.1 Student – Full time Teacher Ratio (Data for the latest completed academic year)

Response: 7.04

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 using ICT tools

Response:

Response:

VSMCOE provides inclusive and need based education for all students including students coming from vernacular languages, slow learners, advanced learners, and socially, economically backward sectors. The institution follows an appropriately designed academic plan to assess the students, implement desired learning objectives and guide them to improve their academic performance.

An admission Committee is formed for all UG/PG Programs at the commencement of the academic year, the information relevant to such as introduction to the programme and discipline; faculty details including qualification, specialization and expertise; duration of the programme; attendance requirements; examination pattern and the rules and regulations of JNT University and Government of AP norms will be provided to both the students as well as parents.

Identifying learners abilities: After admissions into various Programms, a **diagnostic test** is conducted in Mathematics, Physics, Chemistry and English. The question papers are set as per the difficulty level and the learning abilities. On the basis of results students are considered as two types: those who score above 60% are shortlisted as academically advanced learners and those who get below 40%, as academically slow learners. Subject teachers and class in-charges through classroom interaction and counselling classes, identifies the strengths and weakness of individual students. In addition the HoD's with the help of Mentors identify students who are slow learners and having backlogs.

Support for slow Learners:

Remedial classes are scheduled for slow learners in the regular class work time-table for every course. Slow learners are given extra coaching through, reading, peer group study, extra assignments and more tests to enhance inclusive learning. The **remedial programme** improves the students participatory response in the classroom, internal tests and the CIA. **Bridge courses** in Programming, Mathematics, and English Communication Skills are conducted for *Lateral Entry students* to bridge the gap between the Diploma program and Undergraduate program. This provides confidence among Lateral Entry students to be on par with the regular students. **Tutorials** are included in the regular class work time-table to solve more number of problems and to revise the topics covered. The **communication skills** are given special emphasis for students coming from the rural background. Think-Pair-Share, Flipped classroom & Blended learning, **Brainstorming, Collaborative Learning, Case Studies, Guided & focussed group discussion** methodologies are used to enhance the learning abilities of students. Course Review Meeting is conducted after Mid Semester Exam to assess the learning level of students and additional classes are arranged for the slow learners.

The VSMCOE *finishing school* provides a meticulously planned systematic approach distributed across all semesters to build the foundation and sharpen the skills of the slow learners.

for the complete write up please click the link:

<https://www.vsm.edu.in/pdfs/C-2/2.3.1%20QLM.pdf>

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Percentage of full-time teachers against sanctioned posts during the last five years

Response: 100

2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
140	138	145	136	151

File Description	Document
Upload supporting document	View Document

2.4.2 Percentage of full time teachers with NET/SET/SLET/ Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)**Response:** 11.41**2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
18	18	19	13	13

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.5 Evaluation Process and Reforms**2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient****Response:****Response:**

The internal assessment examinations are conducted according to the Academic calendar of the institute as well as University. The Examination-In-Charge (EIC) prepares the examination schedule well in advance before the commencement of exams in consultation with Dean (Academics) which is displayed in the Notice board and mailed to the students and staff members for their reference. Further, if any changes in schedule, pattern or methods related to examination are immediately notified to the students and teachers through mail. The respective subject teacher sets the question paper and send to the examination cell to organize & utilize these questions as per the student strength well before the examinations.

The EIC prepares the invigilation duty chart which is communicated to the faculty members via e-mail. The EIC also allocates the seating arrangements for the student which is notified to the students through the notice board. During examination, attendance is taken by the invigilator for record. If someone found absent in the examination then a message is sent to the parent by the

examination cell. All the invigilators submit the answer scripts to the examination cell. The answer scripts are sent to the respective subject teacher for evaluation. The evaluated answer scripts are shown to the students within 3 days after completion of the test. If any discrepancies found, the same is resolved by the concerned faculty at that time. After that the final marks are uploaded in the CMS for students and parents.

The overall assessment is based on the marks obtained in Internal evaluation through, assignments, slip

tests, unit tests, internals, model exams, external examination and attendance. Internal marks and attendance are periodically communicated to the parents through SMS and during Parent Teacher Meetings.

Projects and seminars are jointly assessed by faculty members and industry experts. The students are guided by the respective domain expert faculty for demonstration of their own project idea along with individual communication, leadership, management and team work.

During the Induction program, the newly admitted students are explained about the attendance requirements, pass mark requirements for promotion, grade system, and CGPA calculation. The faculty members enter the attendance and marks of the students periodically on the University Web portal which would be accessed by the student at any time by using their Login credentials. Whenever the students have doubts, they are encouraged to clarify them by discussing them with the teachers/principal.

- Three unit tests, one model examination in theory subjects and one model examination for practical are conducted in each semester. All questions, examination systems measure the CO's and PSO's, through the quality of questions and pattern of paper setting following Blooms taxonomy to realise OBE.

for the complete write up please click the link:

<https://www.vsm.edu.in/pdfs/C-2/2.5.1%20QLM.pdf>

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

Response:

Response:

VSM College of Engineering (VSMCOE) is affiliated to JNT University, Kakinada (JNTUK) and follows the syllabus/curriculum prescribed by the university. JNTUK curriculum contains the core and elective courses. The curriculum is formulated and reviewed by the Board of Studies (BOS) of the University.

VSMCOE follows the process through which desired outcomes are achieved in terms of knowledge, skills, attitudes and behaviour at the end of a program. Teaching with this consciousness and following the associated effort constitutes outcome-based education. Program Outcomes (POs) are statements that describe what students are able to do after graduating from the respective program. These relate to the

skills, knowledge, analytical ability, attitude, and behaviour that students acquire throughout the program. National Board for Accreditation (NBA) has defined 12 POs for Engineering graduates focused on following Graduate attributes:

1. Engineering Knowledge
2. Problem Analysis
3. Design/Development of Solutions
4. Conduct Investigations of Complex Problems
5. Modern Tool Usage
6. The Engineer and Society
7. Environment and Sustainability
8. Individual and Team Work
9. Project Management and Finance
10. Life-long Learning.

Course Outcomes (COs) of a course are the statements describing what the student would be able to do after studying a course. VSMCOE is affiliated to JNTUK and the syllabus is framed and disseminated by the university. The syllabus by the university specifies the Course objective and course outcomes for each course. If the COs specified in the syllabus does not cover the essential Bloom's taxonomy levels, the course instructor modifies the CO's through interventional mechanisms.

Program Specific Outcomes (PSOs) are statements that describes what students are expected to know and be able to do in a specialized area of Engineering after graduation from a program. PSOs are framed for each program offered in the Institution.

Awareness of Program Outcomes (POs), Course Outcomes (COs) and Program Specific Outcomes (PSOs), among faculties and students in the Institute are done by:

- Pos, COs and PSOs boards are displayed in the corridor of each department.
- Pos, COs and PSOs are approved by the Department Advisory Board.
- POs COs and PSOs for each program are disseminated to the students by respective Department HoDs during Induction Program arranged by the institute for newly joined students.
- Pos, COs and PSOs for each program are made available to the students on the college website. www.vsm.edu.in
- Students are made aware of POs, COs & PSOs, through the handbooks circulated among the students.
- The course instructor describes the relevance of POs, PSOs and COs to students during the beginning of each course. COs along with lesson plan are printed and issued to the students during the first class.
- Students are encouraged to write POs, PSOs, and Course Outcomes in assignments given by the Course Instructors.

Students are made aware of the COs of each Course by mentioning COs in the Internal Assessment question papers.

for the complete write up please click the link:

<https://www.vsm.edu.in/pdfs/C-2/2.6.1%20QLMS.pdf>

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6.2 Pass percentage of Students during last five years

Response: 77.67

2.6.2.1 Number of final year students who passed the university examination year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
185	181	304	327	196

2.6.2.2 Number of final year students who appeared for the university examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
235	228	402	413	258

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.64

File Description	Document
Upload database of all students on roll	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 21.8

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
5.31	6.64	3.47	3.543	2.84

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

Response:

VSM College of Engineering has a vibrant Research Council, an apex body to guide VSMCOE research community for innovation, creation and transfer of knowledge.

The apex body is constituted with a team of experts drawn from academic Institutions, Scientists, Entrepreneurs and Industrial researchers from various reputed organizations under Research Career Planning and Guidance Department. The team generates links with the industry through periodic visit to their office and participating in monthly and annual meets.

VSMCOE established a Research Centre, Entrepreneurship Development Cell and Incubation Centre. The early initiative to create an ecosystem for innovations is the formation of various student clubs for creation and transfer of knowledge. The hidden talents of the students are identified and nurtured through student clubs, co-curricular and extra-curricular activities.

VSMCOE Research and Development Centre comprises of senior faculty members from each department. Dean (R&D) who is a senior professor having handsome experience and expertise in versatile research

field heads R&D Centre with the principal presiding over. The committee oversees the smooth and efficient coordination of research and development activities in the institute, thus fostering overall growth.

The aim of VSMCOE R&D cell is to foresee future problems through pursuit of technology to respond to current social demands, and to contribute to the creation and development of scientific technologies with the aim of realizing an affluent society and natural environment for humanity. At the same time, the VSMCOE aims to create excellent educational resources and an excellent educational environment through frontline researches.

To achieve the above-mentioned purposes, the following objectives are set:

- Lead the academic world and conduct internationally high-level researches in each engineering field
- Conduct cutting-edge researches to lead the academic and industrial worlds at home and abroad and create and develop new academic and technological fields
- Aim to globalize research and education
- Provide suggestions for the future of humanity and the earth, based on high-level academic foundations and vision
- Conduct researches that contribute to the development of human resources who can play a leading and core role in society and researchers who can conduct cutting-edge researches

MISSION AND VISION OF R&D CELL

- Image building of the Institution.
- Creation of research facilities in-house and in collaboration with other national institutes and laboratories.
- Conducting workshops/national and international seminars
- Identification of research projects for faculty and encouraging students for such.
- Imbibing the culture to carry out innovative projects with the students beyond curriculum.
- Conducting various competitions for students on projects and seminars.
- Training younger generation teachers with innovative research projects
- Encouraging faculty and students to attend seminars and workshops inside and outside the state.
- Encouraging faculty and students for publication of research papers in national and international journals of repute.
- Encouraging teachers and students to apply for patents.
- Bringing Research to class rooms by inviting scientists for interaction with students.

for the complete write up click the link

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual

Property Rights (IPR) and entrepreneurship conducted during the last five years**Response:** 133**3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
13	26	37	30	27

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards***3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years*****Response:** 1.34**3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
0	73	76	33	5

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**Response:** 1.01**3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
68	72	0	1	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

Response:

Extension Activities:

VSM College of Engineering (VSMCOE) promotes regular engagement of faculty, students and staff with neighbourhood community for their holistic development and sustained community development through various activities. The college motivates the student's social participation and also drives to achieve its goal of providing higher technical education to create equitable society with ethical values. The Institute is conscious of its role in campus community connection, well-being of its neighbourhood and has initiated a number of community development activities.

To track the involvement of students in various social activities, the Institute has established a mentoring system wherein each faculty members act as mentor for 20 students. They keep records of their participation in such activities. Faculty advisor has to file the student participation in such extension activities in the respective file.

The college is continuously organizing a number of extensions and outreach activities which are directly connected with students academic, social, cultural, community services etc., and the college management with the help of many voluntary organizations and NGOs organizes the outreach programs.

Our College provides major extension and outreach programmes organized under the banner of National Service Scheme (recognised and Award winning) NSS Unit of the College under the guidance of faculty and student participation. The NSS student volunteers used to visit villages and extend their services regularly.

The NSS volunteers used to organize blood donation camp, free eye screening camp, free medical check-up camp, general awareness camp, rally for social awareness, cleaning the nearby villages, etc.

Exposure to extension and outreach activities sensitize the students towards social issues and also to legal and social remedies for matters like domestic violence, dowry, child abuse, beggars, female child, victims of violence, old and infirm, refugees and displaced persons etc.

The activities conducted lead imbibing the values of social responsibility such as:

- To help people in need and distress
- To understand and share the need of under privileged children
- To promote cleanliness in all span of life and common places, Juggi areas.
- To acquire social values and a deep interest in environmental related issues.
- Learning outcomes of the activity:
- Enlarge the knowledge of societal issues and problems and to search solution by getting involved with their lives.
- Build up relation and tie up with organizations/NGO to carry forward humanitarian work in future.
- Develop a passion and brotherhood towards community, affected people/animals and destitute.
- Develop skill and aptitude for problem solving.

The Following Extension Activities are done by VSMCOE,

- Blood donation camps
- Tree planting
- Cleanliness campaigns in Campus
- Awareness programs
 - Swatch Bharat
 - Food Safety
 - Wild life Safety
 - Disease Prevention (Dengue, Cancer, and Seasonal Diseases)
 - Drug Usage
- Environmental Safety and pollution
- Medicine and Health care Programs Like Eye camp, General Medical Camps
- Disaster Management Programs
- Government Services Like Election Trainings, Career Guidance Programs Science Expo
- Quiz and Sports Competition for School Students
- Independence and Republic day celebrations
- Off campus placement for other college students

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2 Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Response:

Extension activities are the voluntary efforts of the educational institutions, inspired by ethical excellence toward social development through various activities like, enhancement of educational standard of underprivileged groups, adult education programs, environmental awareness, ecological conservation, health awareness, healthcare and sanitation, adoption of village for holistic development in addition to the academic commitment of the institution.

Understanding the social responsibility, gratification of institutional social responsibility

through enhanced extension activities will take the institution to eminence on the part of the society where it is located. VSMCOE proudly conducts many extension activities for the benefit of surrounding community. VSMCOE strongly believes that extracurricular activities will open avenues for the students to make social participation and contribute for the social empowerment.

Under the aegis of National Service Scheme and Unnat Bharat Abhiyaan, VSMCOE has conducted following programmes involving the student volunteers: Swachh Bharath, Tree plantation program, Legal awareness programme, Blood Donation camp, Digital Financial Literacy Programme, Clean and Green initiatives, Voter's Day awareness and celebrations, No Plastic and Modern Farming Methods.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 58

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
12	7	21	15	3

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.5 Collaboration

3.5.1 Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 13

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

To accomplish the desired outcomes of quality teaching-learning, we provide facilities for leveraging information and communications technology in the T-L Process. The college is offering UG & PG Programmes, Add-on, Certificate and Value added courses, to cater the needs of 986 students in the academic session 2021-22.

Institution has excellent infrastructural facilities spread over 7.5 Acres of land with 16209 Sq.mts built up area. The college has taken a number of initiatives to make the teaching-learning effective and efficient by providing adequate academic infrastructure.

The Institution raised its infrastructure facilities with 40 laboratories, 36 classrooms, 6 tutorial rooms, 3 Seminar Halls and 1 Auditorium which exceeds the requirements as per the AICTE, UGC guidelines. All the classrooms, seminar halls and many of the Laboratories are equipped with ICT facilities. All the laboratories have prescribed equipment as per JNT University Curriculum from basic tools to advanced research oriented equipment and are well maintained. Computer laboratories have up to-date PCs with installed licensed software as well as open source software. 3:1 Student Computer Ratio is being maintained in the institute.

All departments have their own departmental library for reference. The resources of each department are shared by all the other departments. VSMCOE has a Computer centre, comprising 8 computer laboratories with about 380 computers. All the departments make use of computer labs to conduct tests like online test, aptitude test and so on. Besides strong LMS system developed using ICT, the college also offers some classes on cloud computing.

Classroom Facilities: The Institution is provided with ventilated eco-friendly classroom facilities. The furniture in classrooms consists of bench and desk which can accommodate four members and for the individual, a fixed folded type chair and table. Each class is provided with black and green board and stage with a sufficient number of LED lights and fans. The Classrooms have LCD projector and Internet Connection for ICT Based Learning.

Laboratory Facilities: Institute has modern, state of the art, well - equipped laboratories with the latest equipment and required software for the UG and PG programs being conducted. A separate storage facility is provided to store raw material and consumables. For safety first aid kit, rubber mats, earthing and fire-fighting equipment is installed. Labs are suitably designed to accommodate and run heavy machinery. In engineering & science laboratories, elaborative charts are made available for teaching and learning activities including instructions about Do's and Don't' in the laboratory premises. Additional Experiments beyond the prescribed JNTU curriculum are carried out in most of the labs to fulfill the curriculum gaps. Multiple power supplies like UPS, generator power are suitably provided for all the lab spaces.

for the complete write up please click the link:

<https://vsm.edu.in/pdfs/C-4/Finalised%20QLM%204.1.1..pdf>

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 16.68

4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
31.87	35.27	36.87	50.43	56.04

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

VSMCOE Library is an important source of knowledge for young minds. The library is spread over a carpet area of 240.9 sq.ft, the reading space is 162 sq.ft. The number of seats in reading space is 80. Library has a collection of around 20039 books and 40 periodical journals, 233 encyclopedias and 10 magazines, 50 Gate Books, book banks, proceedings, news clippings, Back volumes and 1050 Project Reports. It also has archive of college magazine, news letter, annual reports, academic syllabus & regulations, course materials, Old semester question papers, publications, videos for self learning, audios and photographs of college events etc. The digital library is an integral part of the main library acting as backbone to the teaching and learning process.

The library is fully automated with SOUL library management software, version 2.0. The OPAC page is the home page of the college library. The OPAC page, being the gateway to library collection, shows the kind of knowledge-store that exists in the institution. The entire collection of our library can be accessed through the IP address <http://192.168.1.9> the intranet. Online catalogue is available in Library. The key functions of the library automation, are acquisition, cataloguing, circulation, serials control, acquisition, Course management, reports and reference service.

All the Staff and Students are the member of our central library. Our Central Library is functioning from 9.00 A.M to 7.00 P.M on all working days. During Sunday, will function from 10.00 A.M to 4.00 P.M. so all the students can utilize the library effectively.

Full-featured ILS

SOUL 2.0 has comprehensive functionality including basic and advanced modules for acquisitions, circulation, cataloguing, serials management, authorities, flexible reporting, label printing, multi-format notices, offline circulation for when Internet access is not available, and much more. SOUL 2.0 will work for consortia of all sizes, multi-branch, and single-branch libraries.

Full text searching: Powerful searching, and an enhanced catalogue display that can use content from Amazon, Google, Library Thing, Open Library, and Syndetics, among others.

Library Standards Compliant: SOUL 2.0 is built using library standards and protocols, ensuring interoperability between SOUL 2.0 and other systems and technologies, while supporting existing workflows and tools.

Web-based Interfaces: SOUL 2.0's OPAC, circ, management and self-checkout interfaces are all based on standards-compliant World Wide Web technologies—XHTML, CSS and Javascript—making SOUL 2.0 a truly platform-independent solution.

Digital Library:

The institute has a digital library with 20 terminals. It is fully automated with the help of D-space Digital Library package. It has a collection of 1533 e-journals, 100 e-journals from IEEE, Science Direct, ASCE, Springer, ASME, ASTM, JGATE, MGH, ACM publications. The LMS can be accessed by IP address: <https://vsm.edu.in/engineering/MOD/LibAdmin/index.php>.

An E-learning centre with in the digital library is established with NPTEL video lectures from IITs, MIT, *etc* related to all Engineering subjects. These E-learning data can be reached at <http://192.168.1.9> in the LAN.

for the complete write up please click the link:

<https://vsm.edu.in/pdfs/C-4/Finalised%20QLM%204.2.1..pdf>

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Response:

Computing Facility:

As the world is becoming completely digital dependent, VSMCOE is keen in giving computer education to all the students in the college and has accordingly updated its IT infrastructure to cater to the needs of the students ensuring effective and outcome based teaching-learning. Value added IT courses are conducted in all the departments. VSMCOE has a total of 380 computers with latest hardware configuration. There are around 8 Computer labs in the campus for students use. The Student - Computer ratio is 3:1. All the departments and the research centers have their own computers which are connected through a campus network and through internet with the rest of the world.

Servers, Open source software and Propriety Software:

VSMCOE maintains a total number of 13 servers, which include 1 web server, 1 server exclusively for library, 6 servers for UG lab (Linux server-2, Windows server-3, Oracle Server-1), 4 servers for PG lab (Linux server-1, Windows server-1, Oracle Server-2), one Proxy server, with which our students enjoy the computing facility.

The need for Internet has become mandatory in information sharing and knowledge dissemination. To facilitate the sharing of files between departments there exists LAN connection. The campus Network has been established and maintained by the Department of CSE. The old network has been upgraded and replaced with 15 extreme switches, 30 wireless access points, a high resolution sonic firewall, WLAN controller, unified threat management system and 2 high end servers for Antivirus, FTP and DHCP.

Our campus is completely Wi-Fi enabled in the year 2018. For ease of access, all blocks have been enabled with Wi-Fi (with 20 hotspots). All the seminar and conference halls have been installed with LCD projectors. Biometric scanner based attendance capturing system is upgraded for faculty members. From all the departments, classrooms, and seminar halls data could be easily accessed. The institution has 20 hotspots with extenders provided to cover the wireless range throughout the college. The speed of the Wi-Fi access is 60 Mbps. Biometric attendance machines are also connected with Wi-Fi. The laptops those are brought in by the students are connected by noting down their system's MAC address. As many students are having laptops of their own, they bring it and register their device's IP address and get Internet access

inside the campus.

The noteworthy feature of our wi-fi facility is, students, faculty and research scholars have 24/7 access to the internet. The present wired and wireless network infrastructure has been established with priority on reliability, performance and efficiency. Dedicated leased line Internet facility with a bandwidth of 60 Mbps is available to cater to the academic & research needs in the Campus. The entire campus is Wi-Fi enabled. The activity in the institute is under video surveillance with 80 CC cameras.

for the complete write up please click the link:

<https://vsm.edu.in/pdfs/C-4/Finalised%20QLM%204.3.1..pdf>

File Description	Document
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4.3.2 Student – Computer ratio (Data for the latest completed academic year)

Response: 2.59

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 380

File Description	Document
Upload supporting document	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)

Response: 17.89

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
56.43	27.87	51.82	28.27	61.35

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

Response: 93.41

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
916	820	997	1175	1181

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 100

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
986	861	1030	1275	1296

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

5.2 Student Progression

5.2.1 Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 86.01

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
172	155	278	266	162

5.2.1.2 Number of outgoing students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
185	181	312	327	196

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 100

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
9	14	32	7	2

5.2.2.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
9	14	32	7	2

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 19

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

national/international level (award for a team event should be counted as one) year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
4	5	2	6	2

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 26.4

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
19	20	38	27	28

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

Response:

VSM College of Engineering (VSMCOE) has played a pivotal role in shaping the careers of students into technocrats, leaders, entrepreneurs, researchers and global managers. Developing an active and engaged alumni network empowers both the Institute and its graduates. The VSMCOE has a registered alumni Association named as “VSM Engineering College **Alumni Association**” that creates and maintains a life-

long connection between VSMCOE and its alumni. VSMCOE Alumni Association is registered as a society under Government of Andhra Pradesh Societies Act during the year 2019 with the Registration Number 969/2019 with defined by-laws. There is a separate bank account for the Alumni Association, which is periodically audited by the external auditor.

Alumni Committee is functional with the objective to nurture a platform for its alumni base of 2000+ registered life members to connect, engage and benefit the alumni, students and staff. Alumni Association is formed in 2019 having one representative from every Department to accommodate the ever-increasing number of alumni.

The mission of the Association is to foster strong bonds between alumni, students and the Institute, to keep alumni informed, and create a network enabling them to remain engaged with their alma mater and help shape its future through the Association's programmes and services. VSMCOE Alumni Association continues to seek innovative ways to serve alumni by providing social, educational, and professional opportunities that appeal to our broad constituency.

Alumni association undertakes activities such as, to receive feedback on the design, implementation and review of syllabus, to enhance employment opportunities, **get-togethers, alumni directory**, informational publications, continued learning opportunities and administration of social services. The college organizes a **reunion meeting** of its alumni members once in a year. The alumni take this meet as an opportunity to meet junior students and faculty to share their professional experience and also guide them for their future aspects like employment, knowledge acquisition and training updates.

Star Alumni: VSMCOE takes pride in many star alumni who are currently holding eminent and illustrious positions in various multinational companies including Infosys, Wipro, Capgemini, Tech Mahindra, Infinite, Efftronics, Roboclick, Mindtree, Fixity, Tos, Revature, Hexaware, Maplelabs, Infolab, Savantis and Krify etc.

Contribution from Alumni:

VSMCOE alumni contribute **weak Students for Tuition Fee: Many Alumni have supported our students either partially or fully for their academic fee** significantly to the development of the Institute through the following means like:

Sponsoring Economically

Expert speaker: Alumni are invited for guest lectures in their respective domains, keynote speakers for Conferences, training programs, seminars etc., also as examiners for the final year project exhibition and annual degree distribution ceremony as distinguished speakers.

Experience sharing: Alumni reunion meets are organized by the Alumni Committee every year in the month of January. In all these meets, alumni shared their valuable experience and gave inputs on the current trends in industry. They helped to bridge the academia-industry gap to encourage students for Research and Development work in various fields like Engineering and industrialization.

for the complete write up please click the link:

<https://www.vsm.edu.in/pdfs/C-5/5.4.1%20Alumni.pdf>

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Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

Response:

The Institute's focus and core ideology are reflected in its Vision, Mission, and Quality Policy are mentioned below:

Vision: To become a globally recognized institution in Technical education by way of excellence in academics, knowledge creation through inter disciplinary research and developing all round socially responsible professionals.

Mission:

- To provide curriculum, aligned with institutional goals and objectives, relevant to regional and national needs and for overall all development of students.
- To implement modern pedagogical methods in delivering the academic programmes with experienced and committed faculty.
- To create vibrant ambience that promotes learning, research, creativity, team spirit, scientific temperament invention and Innovation.
- To enhance institute industry interface through collaborative research, consultancy. And needs of the society.
- To generate and disseminate knowledge through training programmes /workshops / seminars / conferences / publications.
- In house faculty members conduct training through assessment such as mock interviews, group discussions and all other corporate requirements to enhance the employability skills of the students.

Quality Policy

“To become a Premier Institute of National Repute by Providing Quality Education, Successful Graduation, Potential Employability and Advanced Research & Development through Academic Excellence”.

“To Develop and Make Students Competent Professional in the Dynamic Environment in the field of Engineering, Technology and Management by emphasizing Research, Social Concern and Ethical Values through Quality Education System”.

“Ramachandrapuram Educational Society”, a charitable and educational organization, was established on 1966 at Ramachandrapuram, by the Philanthropic Vundavalli Satyanarayana Murthy garu Family of East Godavari District, AP, with the sole purpose of helping deprived people from rural and financially challenged background to obtain quality education. VSM College of Engineering (VSMCOE) established

in 2009 by the Society was the very early Self – Financing Engineering College established in the district of East Godavari.

“Ramachandrapuram Educational Society” has been contributing to provide quality education with academic excellence to meet the requirements of industries at national and international levels since 2009. We achieved substantial success in Introducing early and emerging courses like Data Sciences & Artificial Engineering, Cyber Security Architecture. So far more than 2400 UG & 74 PG students got graduated from our institute who are well placed in National & International Organisations.

The administration is overseen by the Board of Governors (BoG) which is constituted as per the statutory regulations. Faculty members are included as member of BoG. BoG meeting is conducted in a transparent manner regularly. The members of BOG make active contributions for academic growth and improvements in the service matters of the employees.

The BOG approves the strategic Plan, Vision & Mission, and the Budget based on the Institutional needs and growth strategy. The BOG ensures that all decisions on the matters such as admissions, new programmes, infrastructure, Teaching & Learning Process and Placements are arrived based on the fundamental concerns of the Institution.

The Principal, who is the academic head of the institution, is aided by: dean, heads of the departments, finance officer, section heads, and chairpersons of other institute-level committees.

For the complete write up click the link

<https://vsm.edu.in/pdfs/C-6/6.1.1%20qlm%20link.pdf>

File Description	Document
Upload Additional information	View Document
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6.2 Strategy Development and Deployment

6.2.1 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

Response:

The governing body of VSMCOE is the statutory decision making body of the college carrying out functions and responsibilities in pursuit of institutional vision, mission and core values. It is constituted as per the norms of AICTE, New Delhi, Affiliating University (JNT University) & Govt. of AP, wherein the members of the board of management have adequate representation.

The GB meets twice a year to deliberate on the activities and approves the minutes of the committees which report to the GB. In this way, strategic plan, minutes of the academic committee, suggesting the fee structure, budget proposals of the finance committee and new initiatives for the future regarding the intake changes of any program are presented to GB for approval. It has a robust framework for governance with the support of 48 statutory and non-statutory functional committees. GB also decides the promotions or penalties as recommended by the academic committee, nominate and constitute central committees for smooth discharge of responsibilities.

Principal functions as the Head of the Institution and is the Ex-officio member of the GB. Based on the directions received from the GB, the Principal executes decisions taken by GB through various committees with the support and coordination of Dean and HoD's and manages the day-to-day affairs of the college. The vice-principal assists Principal in daily admin and heads the internal quality assurance cell. Heads of Department are the administrative head of the concerned department and ensure the smooth running of the department by setting goals and milestones of the department. They are responsible for timetables of each semester, upkeep and maintain records of the department, maintain laboratories, assets, assign duties and monitor faculty performance, verify faculty appraisal, benchmark the growth parameters, monitoring, mentoring of students by the mentors, identify and execute actions on departmental needs, prepare the team towards audits and compliance, monitor R&D and project activities of the department, ensure up keeping of departmental library, lead the team towards publications and IPR, forge MoUs from suitable industries.

Various committees are constituted as per the guidelines from AICTE, JNTU and UGC to ensure all stakeholders' needs are effectively catered. Some of the important committees functional in the institute are:

- Academic Administration Committee
- Time Table Committee
- Discipline Committee
- Research Committee
- Training & Placement Cell
- Purchase Committee
- Sports Committee
- Budget Committee
- Co-curricular and Extra-Curricular Activities Committee
- Entrepreneur Development Cell
- Anti-Ragging Committee
- Grievance Redressal Committee
- Anti-Sexual harassment Committee
- Student Welfare Committee

The **Academic Administration Committee (AAC)** is the highest academic body which decides and advices on all academic matters. Academic proposals from each department are scrutinized and approved with or without modifications by the academic committee. It also recommends/ advise the BoG on proposals for new programme of study and other academic matters. Departments are advised on admission, sports, extracurricular activities, maintenance etc. College is advised regarding institution of scholarships, studentships, fellowships, free-ships, prizes and medals etc.

For the complete write up click the link

<https://vsm.edu.in/pdfs/C-6/6.2.1%20qlm%20link.pdf>

File Description	Document
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6.2.2 Implementation of e-governance in areas of operation

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

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures and Performance Appraisal System for teaching and non-teaching staff

Response:

Response

The Institution provides effective welfare measures to both teaching and non-teaching staff. All statutory welfare measures are implemented. Various welfare measures towards personal and professional growth are being followed to the satisfaction of the employees.

- As per the norms of AICTE, 6th Pay commission recommendations are implemented. The benefits under CAS is being extended as per AICTE norms.
- Employees are covered under EPF and Gratuity to all eligible members (as per PF Rules).
- Study, Maternity and Medical leaves are sanctioned for the needy staff. Sanction of SCL, OD for Conferences, Workshops, FDPs, STTPs, and other university-related work.
- Festival & Medical Advance extended to all employees.
- Advances/ loans are provided for vehicle and laptops to both teaching and non-teaching faculty. One month salary as loan in advance is given without interest and the same will be recovered in 10 EMIs.
- Financial assistance to attend Conferences, Workshops, FDPs, STTPs. Registration fees, dearness allowance, travel grants for faculty attending conferences and workshops are provided.

- Cash incentives provided for best research work.
- Reward for publication of papers / research articles

- Reward for producing University Ranks
- Awards for academic excellence / 100% pass
- Faculty can avail 8 books from the library for a period of one semester.
- Incentive scheme to enthuse faculty to take up Membership Fee in respect of any Indian / Foreign Professional Body/Society.
- Providing management quota seats to wards of teaching staff. Fee concessions/free seats to the children of the staff. They are also rewarded for their best performance in academics. Support for education of the children of the teachers in the group institutions
- Free transportation for all staff.
- Uniform is provided for supporting staff.
- Subsidised canteen fare
- Incentive for vehicle utilization or transport allowance for non-teaching staff
- Incentive for dress materials for housekeeping staff
- Health coverage – group insurance scheme for the whole staff and the premium is paid by the college who don't fall under ESI. Medical reimbursement facility is provided.
- On campus free Full time medical facility with qualified Doctor and nurse are available in the institution.
- National Pension Scheme (NPS) has been extended with matching grants from the institution
- Vacation for every semester
- Reward for attending orientation programmes, workshops and conferences for non-teaching staff
- Gifts during Teachers' Day celebrations
- Family Get – together

The following amounts spent for the welfare measures for teaching and non-teaching staff:

S. No.	Academic Year	Amount of welfare for Teaching and Non- teaching staff
1	2017-18	3,10,000
2	2018-19	4,56,000
3	2019-20	6,50,000
4	2020-21	3,40,000
5	2021-22	5,90,000

Performance Appraisal System for teaching and non-teaching staff

Faculty Performance Assessment is done considering the following:

1. Faculty Self-Appraisal
2. Student feedback

3. Appraisal by Head of the Department.

For the complete write up click the link

<https://www.vsm.edu.in/pdfs/C-6/6.3.1%20qlm%20link.pdf>

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.3.2 Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 58.31

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
129	119	86	73	7

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

Response: 72.5

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
128	124	138	135	142

6.3.3.2 Number of non-teaching staff year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
43	41	46	40	40

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

Response

Strategies for mobilization and optimal utilization of resources and funds from various sources

The financial resources of the institute are managed in very effective manner. The following types of accounts are in operation.

- Receipts and payment accounts
- Income and expenditure accounts
- Balance sheet.

Financial planning is exercised well in advance for efficient budgeting and review is done on periodic intervals through Accounts committee under the supervision of principal, dean-administration, management representative, HoD's and account personnel involving the various academic departments and administrative sections of the institute. The institution prepares the budget after taking into account of the sources of earnings and expenditure. It mainly allocates fund for the salary of its faculty and staff, Infrastructure development, faculty development, research, library, canteen, hostels are the other recurring expenditures.

1. Recurring Sources

Fees Receipts: Students are admitted as per AP Government Higher Education norms. 70% of students through APSCHC counselling and remaining 30% of students are admitted through management quota. The fees amount collected from the Management Quota students' and from Government Quota students is as per the norms laid by the Fees Fixation Committee of State Government of A.P. This amount is spent for salaries, administrative expenditure, recurring expenses i.e. Electricity, Maintenance and Vehicle fuel

etc and part of infrastructural development activities as well.

Interest Earnings

Every year student's fees are collected from June to October. This amount is deposited in banks as short term deposits towards recurring expenses i.e. salaries, electricity maintenance and vehicle fuel etc. At the time of maturing the banks credit the interest of the concerned deposit, which is an additional income utilized for the development of the college.

2. Non-Recurring Sources

Loans: The institute obtains Term Loans and Hire Purchase Loans from Public sector Bank with Minimum rate of interest through Ramachandrapuram Educational Society. This amount is utilized for the development of infrastructural facilities.

Government Grants and Sponsorship Receipts: Institute is getting Grants from various Government Bodies i.e. AICTE, IEDC, DST etc. to purchase modernized laboratory equipments, latest version software and others. Apart from this, the college applies for getting grants to conduct various Symposiums, Seminars, National and International conferences and other similar activities.

Non - Government Bodies and Sponsorship Receipts: Donations are received from Institutions' well-wishers (i.e. alumni and others) and Philanthropists for students' research and project activities. The college also gets various sponsorships from industries, private firms and individuals.

Corpus Donation of Trust and Trust Contribution: The institution is functioning under Ramachandrapuram Educational Society, AP. The Trust is registered under A.P. Societies Registration Act 1975. Every year Ramachandrapuram Educational Society receives corpus donations from well-wishers and various persons and philanthropists.

For the complete write up click the link

<https://vsm.edu.in/pdfs/C-6/6.4.1%20qlm%20link.pdf>

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

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. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:**Response:**

As per the guidelines of NAAC, the Internal Quality Assurance Cell of VSM College of Engineering (VSMCOE) was established on 2009. As a post accreditation quality sustenance and enhancement measure with Prof. M.V.Ramana as the coordinator. IQAC is driven by a competent team comprising Principal, Senior Professors, Alumni, Industry Experts, and also students. Chairman/ Coordinator of IQAC is part of all major committees and other bodies and extends support to all the academic activities and recommends student centric procedures. The main focus of IQAC is to establish quality metrics consistently in all the initiatives of academic and administrative activities for overall quality growth of the college. IQAC works on evolving strategies to get rid of shortage and enhance quality. IQAC is channelizes the efforts of the University towards achieving holistic academic excellence.

IQAC at VSMCOE has significantly contributed to meet the standards of Institution in the form of formulating and implementing a predefined process for all the activities and made efforts for institutionalizing the quality assurance strategies and processes.

The quality parameters for various aspects of the institution are:

- Admission Quality & Student Profile
- Alumni Profile/Distinguished Alumni
- Awards and recognition received by students
- Awards and recognition to faculty
- Books published/Reviewed/Edited
- Class room, Seminar Halls, Auditorium, Hostel Quality
- Consultancy, Research Projects
- Day to day attendance monitoring and follow up
- Faculty Guiding Ph.D.'s
- Faculty Quality & Quality of Research publications
- No of Collaborations
- Number of ICT Programs
- Participation of student in Guest Lectures/Seminars/Workshops
- Patents Applied / Awarded
- Placement Quality & Admissions for Higher Studies
- Result Analysis & Feedback Analysis
- Success rate of Passed out students & Success in competitive exam
- Workshops /seminars /Conferences organized/ participated

Members of IQAC

Sl. No.	Name	Designation	Position	Mobile Number
1	Dr P Venkateswar	Principal	Chair Person	9182020681
2	Mr V Ravindra	Representing management	Member	9000434007
3	Prof. T Srikanth	Academic Expert	External Member	8019145567
4	Ms V Revathi	Industrial person	External Member	9493277502
5	Mr M V Ramana	Representing Teaching	IQAC Coordinator	8019145567

		Faculty			
6	Mrs P Sridevi	Representing Teaching Faculty	Member	9491422155	
7	Mrs Y Jyothi	Representing Teaching Faculty	Member	9492778680	
8	Mr T Karthik	Representing Teaching Faculty	Member	9347267101	
9	Mr B Srikalyan	Representing Teaching Faculty	Member	7382781194	
10	Mr G Nooka Raju	Representing alumni	Member	9553555431	
11	M Ganesh	Representing student	Member	8179798859	
12	B Ramakrishna	Representing student	Member	7075419776	
13	A Sravya	Representing student	Member	9381195579	

For the complete write up click the link

<https://www.vsm.edu.in/pdfs/C-6/6.5.1%20qlm%20link.pdf>

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.5.2 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
2. Collaborative quality initiatives with other institution(s)/ membership of international networks
3. Participation in NIRF
4. any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 7 - 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 and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

Response:

VSM College of Engineering develops students technical skills while also instilling in them a sense of social and civil responsibility. The institute is sensitive to gender issues and has a zero-tolerance policy for sexual harassment. One of the institute's top priorities is women's protection and security. **Gender equity & sensitization in curricular and co-curricular activities:**

One of the main goals of VSMCoE is to provide education to students that takes into account the needs of diverse segments of society, with a particular emphasis on gender sensitivity and equality. Students of both genders have equal opportunity to reach their full potential at VSM. The following are some of the institute's efforts to promote women's empowerment:

The annual gender equity and sensitization action plan incorporates previously planned and implemented academic and extra-curricular actions. The institute hosts unique events, particularly around International Women's Day, in which a high number of female students and staff members participate.

In the recent past, sessions on 'Personal Hygiene & Cleanliness among Female Students,' 'Education about Cervical Cancer & Breast Cancer,' and so on were held.

Facilities for women on campus:

Safety & Security: Safety and security of students, particularly female students, are of prime importance at VSM. The institute has adequate security personnel who are vigilant 24x7 in the campus. Identity cards are mandated for everyone on campus. Security is provided at the entrance to ensure all the visitors adhere to the entry procedure. The entire campus is under the surveillance of CCTV camera which records the movements of everyone and thus ensures safety of girl students within the campus. Adequate provision is made with first aid box for the employees.

Common Rooms: Institution has ladies common rooms with facilities like cot, bed, table, chair etc. Every floor has the provisions of common rooms for girls and women to rest in privacy.

Counseling: VSMCoE has faculty mentoring system, through which students are mentored periodically by their respective faculty mentors.

Redressal of grievance related to sexual harassment: The institute has anti-sexual harassment committee which resolves any issues related to sexual harassment within the campus. **Other Initiatives taken by the institute:**

Institute Celebrates 'International's Woman's Day' with zeal and enthusiasm. Various women- related themes and topics taken up for discussion and debates during cultural events. Institute has formalized committee as per the guidelines of UGC/AICTE/State Government to ensure safety and security of female employee and students on campus. Some of this committee are:

- Anti-Ragging Committee
- Grievance Redressal Committee
- Internal Complaints Committee
- Women Development Committee

All the above committee have representation from students. Notice is also put up on the notice board about the committee and their members It is our endeavor to make the VSM campus a gender-neutral campus wherein everyone enjoys equal opportunities, resources, services, benefits, decision-making power and influence.

For the gender equity, we are conducted several programs like Sankranti sambaralu, anti-ragging awareness, national girls day, road safety programs.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.1.2 The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Response: A. 4 or All of the above

File Description	Document
Upload supporting document	View Document

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic diversity and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

Response:

The courses ‘Constitution of India’, ‘Professional Ethics’ and ‘Cyber Law’ offered in B.Tech curriculum. UG students are sensitized about fundamental rights, directive principles, and duties of citizens. Important outcomes of this course are to ensure students have constitutional knowledge and they understand the responsibilities of engineers.

Apart from working towards academic excellence, the institute strives to develop students as responsible citizens of this country. Through various programs and practices, students & employees are sensitized about various constitutional obligations. Faculty members & students enthusiastically involve in all the programs arranged for driving these obligations.

Every year ‘Independence Day’ and ‘Republic Day’ is celebrated with great vigor to constantly remind the faculty and the students with respect to the sacrifices made by our freedom fighters and recollect their contributions. During these celebrations, rights, duties, and responsibilities of citizens are stressed by invited guests. Students and staff speak about fundamental rights & duties, Human rights and directive principles of the constitution

Institution celebrates constitution day as “Samvidhan Diwas” on 26th November of every year. During this day all the staff and students administer oath to follow and protect the constitution of India. NSS unit of the institute arranges health camps, blood donation camps, Swach Bharat Abhiyan, literacy drives, social responsibilities awareness rallies, national integration, and social harmony rallies, etc.

Institution organizes awareness program on “Electoral Day” and conduct rally at nearby village to sensitize the public with respect to voting and participation in the democracy. Institution conducts debate competition during the annual day on various subjects related to executive, judiciary and the Legislation.

A few specific programs initiated by the institute in recent past:

Rural connect through Unnat Bharat Abhiyan:

Institute is registered under the Ministry of Human Resource Development (MHRD) initiated program Unnat Bharat Abhiyan with AISHE CODE:C-24342 Under the UBA program, VSM has adopted RAYAVARAM villages: Various grassroot studies are undertaken in these villages under the guidance of A.B. Chandrika Assistant Professor, ECE Dept.

Digitalisation Awareness Program

A team of VSMCoE staff and students from the CSE stream visited few rural schools near RC Puram on November 2021 and held Digitalisation Awareness Campaigns.

Awareness Campaign on Skilling and Health

A team of VSM staff and students from the stream held the following awareness campaign on Jan 2022 at Rayavaram Village.

1.Skill Development Program for PU Students

2.Prevention and Protective Measures of Endemic and Epidemic Diseases.

Awareness about Life Skills and measures to safeguard against Endemic and Epidemic diseases were covered during this campaign. The contribution of VSM students during the COVID-19 lockdown is worth mentioning. They were actively engaged in the distribution of essential food kit for all needy households affected due to COVID-19 Lockdown. Trust, which runs the institute, has always been at the forefront with regard to social responsibility. The benevolence of this trust is clearly reflected in donations paid for various purposes in the past five years.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practice I:

Title of the Practice:VSM College of Engineering - Innovation Culture

Objectives of the Innovation Cell

The Vision of the Innovation cell is in sync with the institutional Vision statements that encompasses the theme achieving recognition as an institution of excellence in innovation promotion ecosystem by keeping pace with rapidly changing technologies and to create technical manpower of global standards with capabilities of accepting new challenges. With an aim towards this vision, the institution works on a mission of creating an innovation culture in the institution by putting in efforts dedicated towards creation of an ecosystem to promote innovation and entrepreneurship. This mission focus on networking with peers

& institutions and defining and directing focused technical innovations targeting towards national priorities.

The Context

Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are in formative years.

MIC has envisioned encouraging creation of Institution's Innovation Councils (IICs) across selected Higher Educational Institutions. A network of IICs are established to promote innovation and entrepreneurship in the Institution through innumerable modes leading to an innovation promotion ecosystem in the campus. MIC has established Institution's Innovation Council in more than 3734 Institutions till March 2022.

VSM College of Engineering had started giving more focus on innovation activities in the campus since 2011. The formal AICTE, MoE, Government of India's Innovation Council (VSMCOE-IIC) was established in the institution in 2018 subsequently with the establishment of Innovation Cell at MoE.

The Practice

The basic objective of conceptualizing this practice through establishment of Ministry of Education's Institution Innovation Cell at the institution was to encourage innovations across the institution. The major objectives that led to establishment of Innovation Cell and conceptualizing this as the best practice were as follows:

- Encouraging innovations, entrepreneurship and startup in the institute.
- Exclusive support programs for aspiring IICs like Impact Lecture Scheme.
- Opportunity to participate in Atal Ranking of Institute on Innovation Achievements (ARIIA) ranking PAN India.
- Round the year guided activities. Monitoring & Recognition of Innovation & Entrepreneurship efforts of Higher Educational Institutions at National level.
- Exclusive contests for students of IICs like National Innovation Contest.
- Provides national platform for showcasing Innovation & Entrepreneurship achievements of Higher Educational Institutions.
-

In alignment with the objectives of the IIC, VSMCOE is practicing following activities:

- Conducting regular review of projects. Conducting internal innovative competitions.
- Hosting National level event like Smart India Hackathon (SIH).
- Participation in Atal Ranking of Institute on Innovation Achievements (ARIIA) ranking PAN India.
- Organizing expert session based by academician, Industrial person, startup person and entrepreneur person for students.
- Organizing session for IPR's patents and copyright for faculties and students.
- Formation of Centre of Excellence (CoE), Pre-incubation center, Incubation center etc.

Problems Encountered and Resources Required

During initial years conventional teaching learning methodology was adopted by the faculty and eventually the students were also interested in conventional education system. The education was examination centric and not learner centric. With innovative methodologies being inculcated in the system, the progress was observed and currently this is treated as the best practice adopted by the institution. Few of the innovations identified by the students are inconclusive and hence a minor setback is encountered by the students, however, with mentorship by the innovation cell this is overcome. As such, no major problems were encountered after implementation of this best practice.

Special Mention:

With a focused approach of creating a culture of innovation in the entire institutional ecosystem, the institution has earmarked substantial resources including financial provisions as incentives for any of the innovations converted into projects. The institution is progressing ahead through implementation of this best practice of 'VSM College of Engineering's Innovation Culture.

Best Practice II

Title of the Practice: Energy Environment Consciousness: Carbon Neutrality Initiatives The context that required the initiation of the practice

VSM College of Engineering, situated in Ramachandrapuram, West Godavari District is an important constituent of Konaseema green region. Keeping in view the degrading environmental Conditions, the institution realized its responsibility towards society by making the citizens aware of deteriorating environmental parameters and nudging them for adopting eco-friendly methods.

Objectives of the practice:

- To infuse environment consciousness among students
- To make the students realize the devastating consequences of climate change and global warming
- To make students as well as general public at large aware of various green environment practices for reducing carbon footprints.
- To develop required skills and expertise among students to deal with associated glaring challenges
- To design, utilize and sustain such platforms where students learn and then involve citizens in various green environmental programmes and practices

The Practice:

Environment education is a part of our curriculum. Our students understand the value of dividends derived from clean and green environment. The college has various societies for implementing various green initiatives viz, NSS, Green Club and Swach Bharat Abhiyan Team to augment students' engagements and participation in various environmental awareness drives. On the recommendation of the IQAC, the Eco and Energy Conservation clubs (ECB) were formed under which a dedicated team of forty students organized various programmes in and outside the college for spreading the message of green environment. Eco Club and Energy Conservation Club have played a dynamic role in awakening and involving masses in various green practices by organizing activities on environment related issues, through rallies, door- to - door campaign, regular cleanliness drives of the campus, tree plantation, displaying instructions and writing

slogans in the campus and outside as well, besides labeling all the plants and the trees in the college for their identification. Energy and Green Audits have also been carried out.

for the complete write up please click the link:

<https://vsm.edu.in/pdfs/C-7/7.2%20BEST%20PRACTICES%20matter.pdf>

File Description	Document
Any other relevant information	View Document
Best practices as hosted on the Institutional website	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Response:

Teaching – learning as thrust area

The **Vision** of the institution is “To provide an excellent technical education for development of global engineers with strong entrepreneurial skills and social ethics” which indicates the commitment of the institution to teaching and thereby the learning of the students. The institution is predominantly over decade has evolved into excellence in teaching-learning with other development verticals such as research, innovation, consultancy, industry interaction and entrepreneurship. In these years, the institution has been progressively achieving results in all other verticals besides its primary domain of teaching – learning.

Priority:

“Konaseema” region of Andhra Pradesh is backward in education. The development and education opportunities to the students in this region were scanty. The setting of the institution in this rural region in 2009 was to provide quality technical education to generate first generation engineers. Owing to their background, students who joined the institution had to be given the best possible teaching to learn and secure a job. Initially the management of the institution has made a focused approach to academic development of students through best teaching-learning methods and ambient infrastructure to providing them the campus placement. Even today the Institution is predominantly a teaching-learning institution but with well laid strategic plan to augment other development verticals such as research, consultancy, and industry interaction. The Institution has developed leaps and bounds by securing Quality accreditation “NAAC Accredited” status by NAAC, research funding, industry sponsored projects and other

achievements which testify the overall development of the institution with its sound footing in teaching-learning.

Thrust:

The thrust on teaching-learning process is given by the Institution to:

- Impart knowledge
- Develop skills
- Imbibe values and ethics
- Mentor to build up capacity for self learning and inquisitiveness for lifelong learning

Student development stages through holistic teaching and mentoring:

- **Developing knowledge and insights:** Ability to recall or remember facts without necessarily understanding them (*Bloom's Level-1*)
- **Comprehension:** Ability to understand and interpret learned information. (*BL-2*)
- **Application:** Ability to use learned material in new and concrete situations, e.g. put ideas and concepts to work in solving problems. (*BL-3*)
- **Analysis:** Ability to break down information into its components (*BL-4*)
- : Ability to judge the value of material for a given purpose (*BL-5*)
- : Ability to put parts together to form a new whole (*BL-6*)

VSM also offers a highly-efficient Mentoring system through which a group of students is assigned to a faculty member at the commencement of the program. Mentors meet their students and guide them with their studies and extra-curricular activities. They also provide advice relating to career guidance and personal problems. The mentors act as guides to the students during the course of stay in the institute. The mentoring system ensures that the students adapt to the dynamic learning environment and lead their ways into highly successful careers.

Other Priority and Thrust Areas Integrated with Teaching-Learning:

Implementation of ICT

Institute has taken initiative in implementation of ICT and some of these are:

- Learning Management System (Moodle)
- Learning Material for Bridge Course
- Students with specialization in areas other than core engineering
- Learning Material for Remedial Coaching
- For slow learners, institute provides remedial coaching through LMS
- Developing Program objectives and Program Specific objectives
- Smart Classrooms: Where a variety of synchronous technologies facilitates faculty to make presentations more interactive.
- Lecture Capturing System helps recording live classroom and also to create content for e library.
- Audio and video conferencing enables the institute to live streaming of the lecture.
- Multimedia enabled audio-visual classrooms
- ERP for academic administration, Admission, Attendance Management, Examination, Fee

Management and Result Generation

Outcome:

The student through an effective teaching – learning process shall go through the rigor of gaining Knowledge and practical skills from the first semester to undertake innovative work as project in the final semester. This helps the student to either pursue his interest in higher education, take-up campus placement or endeavor entrepreneurship besides lifelong learning.

Regarding Institutional distinctiveness, in our college we have add-on courses, certificate courses, value-added courses, annual pass percentage , placements, mentor-mentee system, remedial classes, solar plant and governing bodies.

File Description	Document
Appropriate web in the Institutional website	View Document
Any other relevant information	View Document

5. CONCLUSION

Additional Information :

VSM college of engineering (VSMCoE) is promoted by "Ramachandrapuram Education Society", founded in 1966 by late Sri Vundavilli Satyanarayana Murthy with a vision to provide education to the marginalized sections of the rural area of East Godavari District. The vision of VSMCoE is founded on the belief that there is prosperous young talent in the rural pockets of our country and with right guidance and encouragement, we can raise them to the highest levels both in technology and leadership. To fulfill this vision the Institution is professionally managed by distinguished academicians, industrialists and technocrats belonging to EG district, Andhra Pradesh under the President ship of Sri. M. Siva Rama Prasad, an educationist and businessman. The motto of the Institution is **“VIDYA VIJAYATETARAM”**.

Concluding Remarks :

VSMCoE made a humble beginning in 2009 and has grown into a reputed centre of academic excellence and research in emerging technologies. The college is located in serene area surrounding amidst cluster of green fields on the state highway on Kakinada-Ravulapalem road in Ramachandrapuram. VSMCoE is in the reach of about 50 minutes drive from Raja Mahendravaram Airport and Railway station. The college enjoys a congenial atmosphere essential for a leisure and vibrant scholastic learning process.

As an exemplary institution of learning, VSMCoE follows an admission policy that strongly favors merit, even as it enables access to education for students from all strata of society through appropriate scholarships. VSMCoE provides engineering education for life through a combination of stimulating environment for intellectual development, individual thinking, and personal growth, supporting its students with dynamic learning opportunities and equipping them with the skills, insights, attitudes and practical experiences that are necessary to take up challenges in the industry and society at large.

With a highly qualified faculty and a technology enabled campus, VSMCoE focuses on 360 degree development of its students. Students are encouraged to participate in research activities, sports, cultural, social, co-curricular and extracurricular activities to ensure that they are all round graduates. At VSMCoE, students are given every opportunity to gain optimal advantage in terms of advanced technical knowledge, skills and research by sheer motivation through special training modules. The approach offers distinct aspects of intellectual growth and development of individual students as future engineers to suit the growing needs and aspirations of the nation in future.

VSMCoE graduates are thus the cream of the crop and are today working in a diverse range of organizations and a host of others in India and abroad. VSMCoE graduates are also active in a wide variety of areas in pure research and entrepreneurship thus demonstrating their ability to shine across geographies and industries.

The beautiful and spacious buildings have been designed accommodating the needs of administration, computer centre, academic block, lecture halls, library, laboratories, conference halls, and hostel and students common rooms.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.2.1	<p>Number of Add on /Certificate/Value added programs offered during the last five years</p> <p>Answer before DVV Verification :</p> <p>Answer After DVV Verification :78</p> <p>Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.</p>																				
1.2.2	<p>Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years</p> <p>1.2.2.1. Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>961</td> <td>845</td> <td>1027</td> <td>1239</td> <td>1330</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>961</td> <td>845</td> <td>1027</td> <td>1239</td> <td>1250</td> </tr> </tbody> </table> <p>Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.</p>	2021-22	2020-21	2019-20	2018-19	2017-18	961	845	1027	1239	1330	2021-22	2020-21	2019-20	2018-19	2017-18	961	845	1027	1239	1250
2021-22	2020-21	2019-20	2018-19	2017-18																	
961	845	1027	1239	1330																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
961	845	1027	1239	1250																	
1.3.2	<p>Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)</p> <p>1.3.2.1. Number of students undertaking project work/field work / internships</p> <p>Answer before DVV Verification : 945</p> <p>Answer after DVV Verification: 921</p> <p>Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.</p>																				
2.1.2	<p>Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)</p> <p>2.1.2.1. Number of actual students admitted from the reserved categories year - wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18															
2021-22	2020-21	2019-20	2018-19	2017-18																	

223	178	117	138	141
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Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
174	163	120	138	141

2.1.2.2. Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
258	258	258	258	258

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
258	258	258	258	258

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

3.1.1.1. Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
5.31	6.64	3.47	3.543	2.83

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
5.31	6.64	3.47	3.543	2.84

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

3.2.2.1. Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
12	25	37	29	26

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
13	26	37	30	27

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

3.3.1 **Number of research papers published per teacher in the Journals notified on UGC care list during the last five years**

3.3.1.1. **Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
75	73	76	33	5

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
0	73	76	33	5

Remark : As HEI has not provided data calendar year wise so based on that DVV input is recommended.

3.3.2 **Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**

3.3.2.1. **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
69	68	72	1	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
68	72	0	1	0

Remark : As per the revised data and clarification received from HEI, based on that DVV input is

recommended.

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

3.4.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
20	13	25	20	6

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
12	7	21	15	3

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

3.5.1 Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Answer before DVV Verification :

Answer After DVV Verification :13

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

4.1.2.1. Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
35.57	36.55	36.87	50.43	58.97

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
31.87	35.27	36.87	50.43	56.04

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

5.1.3.1. Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
986	861	1030	1275	1347

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
986	861	1030	1275	1296

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

5.2.2.1. Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
9	14	32	11	17

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
9	14	32	7	2

5.2.2.2. Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
9	14	32	11	17

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
9	14	32	7	2

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
5	5	2	8	2

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
4	5	2	6	2

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

5.3.2.1. Number of sports and cultural programs in which students of the Institution participated year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
27	27	44	31	30

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
19	20	38	27	28

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

6.3.2 Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

6.3.2.1. Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
161	119	86	73	7

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
129	119	86	73	7

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

6.3.3.1. Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
171	191	268	230	182

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
128	124	138	135	142

6.3.3.2. Number of non-teaching staff year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
85	80	95	96	88

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
43	41	46	40	40

Remark : As per the revised data and clarification received from HEI, based on that DVV input is recommended.

2.Extended Profile Deviations

ID	Extended Questions																				
1.1	<p>Number of students year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>986</td> <td>861</td> <td>1030</td> <td>1275</td> <td>1347</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>986</td> <td>861</td> <td>1030</td> <td>1275</td> <td>1296</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	986	861	1030	1275	1347	2021-22	2020-21	2019-20	2018-19	2017-18	986	861	1030	1275	1296
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2.1	<p>Number of teaching staff / full time teachers during the last five years (Without repeat count):</p> <p>Answer before DVV Verification : 318</p> <p>Answer after DVV Verification : 140</p>																				
3.1	<p>Expenditure excluding salary component year wise during the last five years (INR in lakhs)</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>215.01</td> <td>94.36</td> <td>163.58</td> <td>178.69</td> <td>176.65</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>252.06</td> <td>135.21</td> <td>202.81</td> <td>242.74</td> <td>429.04</td> </tr> </tbody> </table>	2021-22	2020-21	2019-20	2018-19	2017-18	215.01	94.36	163.58	178.69	176.65	2021-22	2020-21	2019-20	2018-19	2017-18	252.06	135.21	202.81	242.74	429.04
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