



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	VARDHAMAN COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr. S. Sai Satyanarayana Reddy
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08413-253335
Mobile no.	9502653333
Registered Email	principal@vardhaman.org
Alternate Email	info@vardhaman.org
Address	Kacharam, Shamshabad
City/Town	Hyderabad
State/UT	Telangana
Pincode	501218
2. Institutional Status	
Autonomous Status (Provide date of Conformant of Autonomous Status)	19-Jun-2014
Type of Institution	Co-education
Location	Rural
Financial Status	private

Name of the IQAC co-ordinator/Director	Dr. P. Nageswara Rao
Phone no/Alternate Phone no.	08413253335
Mobile no.	8688901559
Registered Email	iqac@vardhaman.org
Alternate Email	pasumarthy.nageswararao@vardhaman.org

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://vardhaman.org/IQAC/AQAR2017-18.pdf
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4. Whether Academic Calendar prepared during the year

if yes,whether it is uploaded in the institutional website: Weblink :	Yes https://vardhaman.org/academic-calendar/#1559977871883-d6bc91c4-9531
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5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.24	2014	05-May-2014	31-Dec-2019

6. Date of Establishment of IQAC

12-Dec-2012

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Importance of introducing Social innovation	12-Jul-2018 1	30
Academic Writing skills for research journals article	11-Aug-2018 1	110
Outcome based Education	04-Dec-2018 2	100
Scopus database usage	07-Sep-2018 1	120

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Institution	CPE	UGC	2016 5	0
Institution	SIRO	DSIR	2015	0

			6	
Institution	Autonomous	UGC	2014 6	0
Institution	2F12B	UGC	2012 10	0

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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

2

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

5 UG Courses are Accredited by NBA under Tier I, Conducted training program on Outcome Based Education, Participated in National Institutional Ranking Framework(NIRF), Conducted Academic Audit and reviewed, Organized few Guest lecturers/Seminars on Entrepreneurship Development Activities, Faculty Incentives for research publications, Procured Scopus database software to enable the faculty to identify quality journals, Antiplagiarism software (Turnitin) procured to promote quality research.

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achievements/Outcomes
NBA Accreditation under Tier I	5 UG Programs accredited by NBA under Tier I for a period of 3 years
NIRF Participation	Got 152 Rank in top 200 Colleges
Key Performance Indicators	Monthly reviewed the Department performance on Student, Faculty, Research and Institution
Academic Audit	Improve quality of Teaching learning process
AQAR Submission	Submitted AQARs for the 2014-2015,2015-2016,2016-2017,2017-2018 Academic Years

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
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Governing Body

17-Jun-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

Yes

Date of Visit

14-Dec-2018

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2019

Date of Submission

20-Feb-2019

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

The institution has a Management Information System (MIS): The following are the modules currently operational Online Student Attendance Online Faculty/Staff Leave Application Online Self Appraisal System Online Fee Collection Online Examination Registration Online Feedback on TLP, Facilities, Attainment of COs and POs Online Student Verification Online Exit Survey Online Alumni Registration Exam Portal Student Corner to access attendance on regular basis, internal marks and credit register by Students and Parents Faculty BioMetric Attendance System Online Learning Management System through Byndr AntiPlagiarism Software(Turnitin) SMS based Communication to parents Delnet, Scopus, online Eresources (IEEE, ACM, ASME, Elsevier, JGate etc.) NPTEL, Video Lectures IET Resources BEC Certification Grammarly Software

Part B

CRITERION I - CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	A	Computer Science and Engineering	02/06/2018
BTech	A	Information Technology	02/06/2018
BTech	A	Electronics and Communication Engineering	02/06/2018
BTech	A	Electrical and Electronics Engineering	02/06/2018
BTech	A	Mechanical Engineering	02/06/2018
BTech	A	Civil Engineering	02/06/2018
Mtech	B	Computer Science and Engineering	02/06/2018
Mtech	B	Embedded Systems	02/06/2018
Mtech	B	Digital Electronics and Communication Systems	02/06/2018

Mtech	B	Power Electronics and Electric Drives	02/06/2018
Mtech	B	Engineering Design	02/06/2018
Mtech	B	Structural Engineering	02/06/2018
MBA	C	Master of Business Administration	02/06/2018

1.1.2 - Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	ECE/EEE/MECH/CIVIL/CSE/IT	02/06/2018	A4021 Social Innovation	02/06/2018
BTech	ECE/EEE/MECH/CIVIL/CSE/IT	02/06/2018	A4002 Advanced Calculus	02/06/2018
BTech	ECE/EEE/CSE/IT	02/06/2018	A4201 Basic Electrical Engineering	02/06/2018
BTech	ECE/EEE/MECH/CIVIL/CSE/IT	02/06/2018	A4009 Functional English	02/06/2018
BTech	ECE/EEE/MECH/CIVIL/CSE/IT	02/06/2018	A4010 English Language Communication Skills Laboratory	02/06/2018
BTech	ECE/EEE/MECH/CIVIL/CSE/IT	02/06/2018	A4022 Engineering Exploration	02/06/2018
Mtech	Power Electronics and Electrical Drives	02/06/2018	B4364 FACTS and Custom Power Devices	02/06/2018
Mtech	Engineering Design	02/06/2018	B4708 Advanced Design lab	02/06/2018
Mtech	Engineering Design	02/06/2018	B4764 Advances in Metallurgy	02/06/2018
Mtech	Engineering Design	02/06/2018	B4765 Design for Manufacturing	02/07/2018
Mtech	Structural Engineering	02/06/2018	B4801 Advanced structural Analysis	02/06/2018
Mtech	Structural Engineering	02/06/2018	Structural Design Lab	02/06/2018
Mtech	Structural Engineering	02/06/2018	B4851 Advanced Design of Reinforced Concrete Structures	02/06/2018
Mtech	Structural Engineering	02/06/2018	B4854 Design of Pre-stressed concrete structures	02/06/2018
Mtech	Structural Engineering	02/06/2018	B4803 Structural Design lab	02/06/2018
Mtech	Structural Engineering	02/06/2018	B4804 Advanced Concrete Technology lab	02/06/2018
Mtech	Digital Electronics and Communication Systems	02/06/2018	RTL Simulation and Synthesis with PLDs	02/06/2018
Mtech	Digital Electronics and Communication Systems	02/06/2018	B4402 Wireless and Mobile Communication	02/06/2018
Mtech	Digital Electronics and Communication Systems	02/06/2018	B4451 Wireless Sensor Networks	02/06/2018
Mtech	Digital Electronics and Communication Systems	02/06/2018	Cognitive Radio	02/06/2018
Mtech	Digital Electronics and Communication Systems	02/06/2018	Research Methodology and IPR	02/06/2018
MBA	Master of Business Administration	13/07/2018	Statistics for Management	13/07/2018
MBA	Master of Business Administration	13/07/2018	Managerial Economics	13/07/2018
MBA	Master of Business Administration	13/07/2018	Accounting for Management	13/07/2018
MBA	Master of Business Administration	13/07/2018	Business Laws	13/07/2018
MBA	Master of Business Administration	13/07/2018	Business Environment	13/07/2018

MBA	Master of Business Administration	13/07/2018	Business Communication Lab	13/07/2018
MBA	Master of Business Administration	13/07/2018	IT for Managers	13/07/2018
MBA	Master of Business Administration	13/07/2018	National Service Scheme	13/07/2018
BTech	Computer Science and Engineering	13/07/2018	Entrepreneurship Development (NEN)	13/07/2018
MBA	Master of Business Administration	13/07/2018	Financial Management	13/07/2018
MBA	Master of Business Administration	13/07/2018	Marketing Management	13/07/2018
MBA	Master of Business Administration	13/07/2018	Human Resource Management	13/07/2018
MBA	Master of Business Administration	13/07/2018	Production and Operations Management	13/07/2018
MBA	Master of Business Administration	13/07/2018	Quantitative Analysis for Business Decisions	13/07/2018
MBA	Master of Business Administration	13/07/2018	Business Research Methods	13/07/2018
MBA	Master of Business Administration	13/07/2018	Personal Effectiveness Seminar	13/07/2018
MBA	Master of Business Administration	13/07/2018	Industry Analysis and Report Presentation	13/07/2018
MBA	Master of Business Administration	13/07/2018	Human Values & Intellectual Property Rights	13/07/2018
Mtech	Digital Electronics and Communication Systems	02/06/2018	B4405 Analog and Digital CMOS VLSI Design	02/06/2018
Mtech	Digital Electronics and Communication Systems	02/06/2018	Advanced Digital Signal Processing	02/06/2018
Mtech	Digital Electronics and Communication Systems	02/06/2018	IOT and Applications	02/06/2018
Mtech	Digital Electronics and Communication Systems	02/06/2018	B4461 MIMO System	02/06/2018
Mtech	Digital Electronics and Communication Systems	02/06/2018	Artificial Intelligence	02/06/2018
Mtech	Embedded systems	02/06/2018	Microcontrollers for Embedded System Design	02/06/2018
Mtech	Embedded systems	02/06/2018	Embedded Real Time Operating Systems	02/06/2018
Mtech	Embedded systems	02/06/2018	DSP Processors and Architectures	02/06/2018
Mtech	Embedded systems	02/06/2018	Computer Architecture and Parallel processing	02/06/2018
Mtech	Embedded systems	02/06/2018	Embedded Software Design	02/06/2018
Mtech	Embedded systems	02/06/2018	Hardware Software Co-Design	02/06/2018
Mtech	Embedded system	02/06/2018	Embedded System Lab using PSOC	02/06/2018
MBA	Master of Business Administration	13/07/2018	Management & Organizational Behavior	13/07/2018
BTech	ECE/EEE/MECH/CIVIL/CSE/IT	02/06/2018	A4001 Linear Algebra and Ordinary Differential Equations	02/06/2018
BTech	ECE/EEE/MECH/CIVIL/CSE/IT	02/06/2018	A4501 Programming for Problem Solving	02/06/2018
BTech	ECE/EEE/MECH/CIVIL/CSE/IT	02/06/2018	A4302 Engineering Workshop	02/06/2018
BTech	ECE/EEE/MECH/CIVIL/CSE/IT	02/06/2018	A4502 Programming for Problem Solving Laboratory	02/06/2018

1.2 - Academic Flexibility

1.2.1 - New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
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No Data Entered/Not Applicable !!!

1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
MBA	Master of Business Administration	23/07/2018
BTech	Computer Science and Engineering	19/07/2018
BTech	Civil Engineering	19/07/2018
BTech	Electrical and Electronics Engineering	19/07/2018
BTech	Electronics and Communications Engineering	19/07/2018
BTech	Mechanical Engineering	19/07/2018
BTech	Information Technology	19/07/2018
Mtech	Digital Electronics and Communications Systems	08/08/2018
Mtech	Embedded Systems	08/08/2018
Mtech	Power Electronics and Electrical Drives	08/08/2018
Mtech	Computer Science and Engineering	08/08/2018
Mtech	Engineering Design	08/08/2018
Mtech	Structural Engineering	08/08/2018

1.3 - Curriculum Enrichment

1.3.1 - Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Stress Management and Yoga	02/06/2018	28
Gender Sensitization	02/06/2018	900
Environmental Science	02/06/2018	900
Essence of Indian Traditional Knowledge	02/06/2018	100
Indian Constitution	02/06/2018	120
Pedagogy Studies	02/06/2018	30
National Service Scheme	29/07/2018	60
IPR HV	29/07/2018	58
CLAD Certification Training in Virtual Instrumentation myRIO	09/07/2018	60
MATLAB Programming Techniques	08/11/2018	40
CLAD Refreshment Course in Virtual Instrumentation	03/12/2018	40
Programming Essential of Python	25/02/2019	55
Inhouse GATE Coaching	09/07/2018	38
Mobile Applications	24/06/2019	50
STAAD Pro Training	31/01/2019	17
Cyber Security	06/08/2018	84
Ansys Training	28/05/2019	28
CCNA RS Introduction to Networking	13/07/2018	191

Introduction to Cyber Security

30/08/2018

84

Introduction to IOT

08/11/2018

109

1.3.2 - Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Civil Engineering	1
BTech	Electronics and Communication Engineering	56
MBA	Master of Business Administration	76
BTech	Electrical and Electronics Engineering	28
BTech	Mechanical Engineering	24
BTech	Computer Science and Engineering	15
BTech	Information Technology	8
Mtech	Structural Engineering	9

1.4 - Feedback System

1.4.1 - Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 - How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

Feedback on all courses will be collected through online from the students twice in a semester. The first feedback will be collected at the middle of the semester i.e., before first midterm examinations and the second will be collected at the end of the semester. During the first feedback a questionnaire consisting of 5 parameters is adopted and a 10 parameter questionnaire along with feedback on course outcomes is taken at the second feedback. Each parameter is measured based on the rating assigned to it i.e., 5 for Excellent, 4 for Very Good, 3 for Good, 2 for Fair and 1 for Poor. Each parameter average is measured by calculating the average number of students given against each rating. Final feedback of a faculty is measured considering the average rating given against each parameter. Formula used for the analysis: Formula for percentage $[(a \times 5) + (b \times 4) + (c \times 3) + (d \times 2) + (e \times 1)] / ((n \times 5)) \times 100$ Formula for out of 5 $((a \times 5) + (b \times 4) + (c \times 3) + (d \times 2) + (e \times 1)) / n$ Note: a Number of students given "To a very great extent / Excellent" as feedback b Number of students given "To a great extent / Very Good" as feedback c Number of students given "To a moderate extent / Good" as feedback d Number of students given "To some extent / Fair" as feedback e Number of students given "Not at all / Poor" as feedback n Number of participants Student Participation Percentage: On an average 80 of the students will be participating in the feedback process. Feedback analysis Process and Corrective Measures: The collected feedback will be analyzed based on the rating given against each parameter of evaluation. Based on the final average of the feedback, corrective measures are taken by: Interacting HOD with the faculty to identify the reasons for not performing well. Providing further guidance in the subject by available senior faculty / other faculty who taught the same subject Deputing faculty to FDPs if required. Faculty who get better feedback will be rewarded by giving more weightage in faculty annual selfappraisal for the consideration of the increment.

CRITERION II - TEACHING- LEARNING AND EVALUATION

2.1 - Student Enrolment and Profile

2.1.1 - Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
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Mtech	Power Electronics and Electrical Drives	18	10	7
Mtech	Digital Electronics and Communication Systems	18	14	9
Mtech	Embedded Systems	18	16	10
Mtech	Engineering Design	18	12	10
Mtech	Structural Engineering	18	18	18
MBA	Master of Business Administration	60	68	60
BTech	Computer Science and Engineering	240	300	240
BTech	Information Technology	120	144	120
BTech	Electronics and Communication Engineering	240	288	240
BTech	Electrical and Electronics Engineering	120	135	119
BTech	Mechanical Engineering	120	130	113
BTech	Civil Engineering	60	70	61
Mtech	Computer Science and Engineering	18	10	8

2.2 - Catering to Student Diversity

2.2.1 - Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	893	122	248	21	16

2.3 - Teaching - Learning Process

2.3.1 - Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
285	276	1833	72	10	8543

2.3.2 - Students mentoring system available in the institution? Give details. (maximum 500 words)

The mentoring aims at addressing the needs of the student and to foster a better rapport between the students and the teachers at personal and academic levels. The process of mentoring is an individualized form of counselling and guidance. Effective mentoring begins with the faculty and depends upon the Vardhaman College of Engineering has a unique method of mentoring its students. A step by step method of mentoring ensures that a student is placed under the care of a faculty upon joining. A well designed diary ensures that a student's profile, prime objectives and course plans are documented. As part of this detailed documentation, the mentor forges a strong bond with the student and vice versa, resulting in a proper, well maintained academic relationship that will ensure that a student is guided on continual basis during the program of study. Responsibilities of the Mentor A mentor is a teacher acting both as a friend and as a role model to support, encourage and guide a student in his/her academic and personal growth. The mentor meets a group of students, periodically once in a fortnight and monitors, counsels, guides and motivates the students in all academic matters for their performance improvement. The Mentoring Sessions The mentoring sessions, as part of the time table, are for the mentors to meet the mentees (students). A close analysis of the activities result in the mentor inquiring about the mentee's academic as well as personal wellbeing. The continuous internal examination (Mid I and Mid II tests) marks, monthwise attendance and internal marks for lab as well as theory are updated in the mentoring diary with the intention of analyzing the student's progress from the first through the fourth year. Each faculty is the mentor of a group of 2025 students allocated to him/her by the concerned Head of the Department. The mentor meets the student during mentoring hours and collects personal and academic information from the student and provides the needed counselling. Depending on the need of the students, the mentor provides the mentee on various types of guidance ranging from course specific guidance, lab specific guidance, and professional guidance to career advancement. In the First Year, mentoring diary plays a crucial role in identifying, analyzing and understanding a particular student and also keep an eye on the mentee's attendance. A fall in attendance or less marks in tests might make a mentor take the decision of informing the parents of the students or sometimes, even counsel the students to change his/her practices for the best. As Engineering is a course that has its own levels of difficulties, the college has understood the need for mentoring as an effective way of boosting a student's potential of becoming a successful professional in the future. The Mentoring process in Vardhaman College of Engineering is ongoing process which ensures the faculty student coordination at its fullest form in achieving academic success of its students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3971	285	1:14

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
285	285	0	27	19

2.4.2 - Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Mr.B Rajagopal Reddy	Associate Professor	Gold Medal (NPTEL)
2018	Ms. Vijayalakshmi Bellapu	Assistant Professor	NPTEL (Gold Medal) for course of Fundamentals of Electrical Engineering
2018	Ms.Shital Vaidya	Assistant Professor	Gold Medal (NPTEL)
2018	Dr.M. Naresh Kumar	Associate Professor	Distinguished Scientist Award (International)
2018	Dr.M. Naresh Kumar	Associate Professor	Young Faculty in Engineering (International)
2018	Dr. Ch. Sulakshana	Associate Professor	Young Scientist Award (International)
2018	Dr D Raman	Professor	Exemplary Performance during the cyber security learnATHon (2nd runner up)
2018	Dr M Gopi Chand	Professor	Session Chair for International Conference on Computational Intelligence Informatics (ICCII2018) held at JNTU, Hyderabad during 2829 December 2018.
2018	Dr M Gopi Chand	Professor	Session Chair for International Conference on Advances in Computing and Communication Technologies (ICACCT2018) held at CMRCET Hyderabad during 21 22 December 2018.
2018	Mr. Bathini Ravinder	Assistant Professor	Qualified UGC NET for Assistant Professor
2018	Dr. P.Indira Priyadarsini	Associate Professor	Reviewed papers for ICCIDE 2018 conference
2019	Mr. K. Madhusudhan Reddy	Assistant Professor	Gold Medal (NPTEL)
2019	Mr. K. Santosh Reddy	Assistant Professor	Gold Medal (NPTEL)
2019	Mr. B. Chandrasekhar	Assistant Professor	Gold Medal (NPTEL)
2019	Mr. S. P. Kishore	Assistant Professor	Gold Medal (NPTEL)
2019	Ms. Sheena Mohammad	Assistant Professor	Best performing women instructor (Trident ICT Academy)
2019	Dr M A Jabbar	Professor	Exceptional contribution as jury member in SMARTINDIA HACKATHON (2ND ,3RD MAY 2019)

2019	Dr M A Jabbar	Professor	IEEE Chair Person
2019	Dr M A Jabbar	Professor	Best faculty researcher, CSI and Fossee labs IIT, Mumbai
2019	Dr M A Jabbar	Professor	Outstanding Reviewer by Elsevier
2019	Dr. P. Nageswara Rao	IQAC / CIQA coordinator	Reviewer for PIER Journal
2018	Dr. Rajanikanth Aluvalu	Associate Professor	IUCEE Distinguished Faculty Award in 2018
2018	Mr. G. S. Prasada Reddy	Assistant Professor	NPTEL (Elite) in the joy of computing using python
2018	Mr. V. Vijaya Bhaskar Reddy	Assistant Professor	NPTEL (Elite) in OOAD
2018	Dr. Raman Dugyala	Professor	Sweep Stakers international award from CISCO
2018	Dr. Dharmesh lal	Assistant Professor	NPTEL (Gold Medal) for course of Geotechnical Engineering Lab
2018	Ms. Renuka V	Assistant Professor	NPTEL (Gold Medal) for the course of Theory of Elasticity
2018	Mr.B Rajagopal Reddy	Associate Professor	Gold Medal (NPTEL)
2019	Dr. Nagajyothi Dimmita	Assistant Professor	NPTEL (Gold Medal) for course of Principles of Signals and Systems
2018	Dr. N. Karuppiyah	Professor	Innovative Researcher in Power Systems
2019	Dr. N. Kiran Kumar	Professor	Reviewer in IEEE Journal
2018	Prof. N. Umamaheshwar Rao	Professor	NPTEL (ELITE)
2018	Dr. M. Naresh Kumar	Associate Professor	NPTEL (ELITE)
2018	Dr. R. Sumalatha	Associate Professor	NPTEL (ELITE)
2018	Ms. M. Madhavi	Assistant Professor	NPTEL (ELITE)
2018	Mr. S. Srinivas	Assistant Professor	NPTEL (ELITE)
2018	Mr. T. Ramakrishnaiah	Assistant Professor	NPTEL (ELITE)
2018	Ms. V. Harini	Assistant Professor	NPTEL (ELITE)
2018	Ms. A. Jaya Lakshmi	Assistant Professor	NPTEL (ELITE)
2018	Mr. Eliyaz Mohamad	Assistant Professor	NPTEL (ELITE)
2018	Ms. S. Sujana	Assistant Professor	NPTEL (ELITE)
2018	Mr. R. Phani Vidyadhar	Assistant Professor	NPTEL (ELITE)

2018	Mr. B. Srikanth	Assistant Professor	NPTEL (ELITE)
2018	Mr. N. Madhu	Assistant Professor	NPTEL (ELITE)
2018	Mr. M. Gopi Krishna	Assistant Professor	NPTEL (ELITE)
2018	Dr. A. Ajitha	Associate Professor	NPTEL (ELITE)
2018	Mr. P. Srikanth	Assistant Professor	NPTEL (ELITE)
2018	Mr. D. Praveen Kumar	Assistant Professor	NPTEL (ELITE, ,GOLD)
2019	Prof. N. Uma Maheshwar Rao	Professor	NPTEL (ELITE, SLIVER)
2019	Dr. S. Karunakaran	Professor	NPTEL (ELITE)
2019	Ms. A Jaya Lakshmi	Assistant Professor	NPTEL (ELITE, SLIVER)
2019	Mr. K H Murali	Assistant Professor	NPTEL (ELITE, SLIVER)
2019	Ms. M. Srilatha	Assistant Professor	NPTEL (ELITE, SLIVER)
2019	Dr. R. Sumalatha	Associate Professor	NPTEL (ELITE)
2019	Mr. M. Gopi Krishna	Assistant Professor	NPTEL (ELITE, SLIVER)
2019	Mr. E. Vijaya Babu	Assistant Professor	NPTEL (ELITE, GOLD)
2019	Dr. D. Nagajyothi	Associate Professor	NPTEL (ELITE, GOLD)
2019	Ms. A. Vijaya Lakshmi	Assistant Professor	NPTEL (ELITE, GOLD)
2019	Ms. V. Jyothi	Assistant Professor	NPTEL (ELITE)
2019	Mr. N. Madhu	Assistant Professor	NPTEL (ELITE)
2019	Dr. N. Karuppiyah	Professor	Reviewer in IEEE
2019	Dr.K. Venkata Ramana	Associate Professor	Reviewer in IEEE
2019	Mr. S. M. Gangadhar Reddy	Assistant Professor	NPTEL GOLD
2019	Dr. K.V.P. Chakradhar	Professor	NPTEL GOLD

2.5 - Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
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MBA	C	I	31/12/2018	18/01/2019
MBA	C	II	31/05/2019	18/06/2019
MBA	C	III	22/11/2018	18/01/2019
MBA	C	IV	25/04/2019	28/05/2019
BTech	A	I	08/12/2018	12/01/2019
BTech	A	II	30/04/2019	14/06/2019
BTech	A	III	30/11/2018	12/01/2019
BTech	A	IV	09/05/2019	14/06/2019
BTech	A	V	30/11/2018	12/01/2019
BTech	A	VI	09/05/2019	14/06/2019
BTech	A	VII	30/11/2018	12/01/2019
BTech	A	VIII	09/05/2019	14/06/2019
Mtech	B	I	29/12/2018	12/01/2019
Mtech	B	II	01/06/2019	02/07/2019

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2.5.2 - Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	0	0

2.6 - Student Performance and Learning Outcomes

2.6.1 - Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://vardhaman.org/wp-content/uploads/2019/09/2.6.1_POs_PSOs_COs-1.pdf

2.6.2 - Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
A	BTech	Civil Engineering	61	60	98
A	BTech	Electrical and Electronics Engineering	135	122	90
A	BTech	Mechanical Engineering	138	115	83.3
A	BTech	Electronics and Communicaton Engineering	288	236	81.94
A	BTech	Computer Science and Engineering	237	222	93.67
A	BTech	Information Technology	108	101	93.5
B	Mtech	Structural Engineering	17	9	53
B	Mtech	Power Electonics and Electrical Drives	6	6	100
B	Mtech	Engineering Design gin	13	9	69.23
B	Mtech	Digital Electronics and Communication Systems	7	3	42.35
B	Mtech	Embedded Systems	10	10	100

B	Mtech	Computer Science and Engineering	12	12	100
C	MBA	Master of Business Administration	56	52	93

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://vardhaman.org/wp-content/uploads/2019/09/2.7.1_Student-Satisfaction-Survey.pdf

CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

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

Yes			
Name of the teacher getting seed money	The amount of seed money	Year of receiving grant	Duration of the grant
Dr P Sarah, Dr Nageshwara Rao, Dr H.S Jain, Dr J V R Ravindra, Dr H Venkateshwara Reddy	1700000	2018	1

3.1.2 - Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Dr. Ch Sulakshana	Best Paper	10/07/2018	IEEE
International	Dr. M. Naresh Kumar	Distinguished Scientist Award	21/07/2018	IOSRD

3.2 - Resource Mobilization for Research

3.2.1 - Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	5	NSTMIS	29.34	10.78
Major Projects	3	DST (Seeds)	62.62	29.7
Major Projects	3	SERB, DST	35.33	33
Major Projects	3	DST (TIDE)	68.71	0
Minor Projects	2	UGC	2	1.55
Minor Projects	1	ICFAI	2.18	2.18

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3.2.2 - The institution provides seed money to its teachers for research,

400000

3.3 - Innovation Ecosystem

3.3.1 - Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Artificial Intelligence and Machine Learning	Electrical and Electronics Engineering	12/12/2018
Deep Learning and Applications	Electrical and Electronics Engineering	27/05/2019
Drives and Controllers for Advanced Energy Efficient Electric /Hybrid Electric Vehicles	Electrical and Electronics Engineering	10/06/2019
Intelligent Internet of Things	Information Technology	19/03/2019

Information Technology	1
Civil Engineering	2
Humanities and Sciences	7
Computer Science and Engineering	3
Mechanical Engineering	2

3.4.2 - Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Electronics and Communication Engineering	25	0
National	Master of Business Administration	4	0
International	Electronics and Communication Engineering	22	9
International	Electrical and Electronics Engineering	14	0.55
International	Mechanical Engineering	8	4
International	Civil Engineering	9	4
International	Computer Science and Engineering	82	1.3
International	Information Technology	13	0.5
International	Humanities and Sciences	19	6
International	Master of Business Administration	2	0.42

3.4.3 - Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Electronics and Communication Engineering	3
Electrical and Electronics Engineering	11
Mechanical Engineering	3
Civil Engineering	1
Computer Science and Engineering	57
Information Technology	19
Humanities and Sciences	1

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3.4.4 - Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Performance Enhanced Glass to Glass Solar PV Panel Combined With Solar Water Heater	Filed	2862/CHE/2	27/12/2018
Analog Signal Acquisition Card (ASAC) For ADC Channel Enhancement In FPGA Boards To Suit For Power Electronic Applications	Filed	2314/CHE/2	27/07/2018
APPARATUS AND METHOD FOR DETECTING THE CLOGGING OF A FUEL FILTER	Published	2017410419	24/05/2019
A NOVEL METHOD AND COMPOSITION FOR PREPARING PIZZA USING PURE GHEE	Published	2017410393	10/05/2019
Automatic Tire Air Filled and Air Pressure Display System	Filed	20182104	01/02/2019
A SYSTEM AND METHOD FOR MONITORING ENVIRONMENTAL POLLUTANTS	Published	2017410277	08/02/2019

ASPA SYSTEM IN AIR STEAM PROTEIN, VITAMIN ABSTRACTION SYSTEM	Published	2018210428	30/11/2018
A PROCESS OF PRODUCING THREE PIN TOOL DEVICE FOR FRICTION STIR WELDING OF THREE LAYER THERMOPLASTIC SHEETS	Published	2016410342	10/12/2018
ACCIDENT SURAKSHA (CRASH REPORTER)	Published	2018410247	20/07/2018
A NOVEL METHOD AND COMPOSITION FOR PREPARING PIZZA USING PURE GHEE	Published	2017410393	10/05/2019
APPARATUS AND METHOD FOR DETECTING THE CLOGGING OF A FUEL FILTER	Published	2017410419	24/05/2019
A NOVEL CODE FOR THE ANALYSIS OF DYNAMIC BEHAVIOR OF ANCHORED STRUCTURES TO EARTHQUAKE EXCITATIONS	Filed	2018410377	05/10/2018
AN ARTIFICIAL INTELLIGENCE (AI) AND INTERNET OF THING (IOT) BASED AUTOMATED AGRICULTURE SYSTEM AND METHOD OF MONITORING	Filed	2018410353	19/09/2018
A SYSTEM AND METHOD FOR VEHICLE SPEED CONTROL	Filed	2018410259	12/07/2018

3.4.5 - Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Fusion of visible and infrared image features for face recognition	Sumalatha R., Sujana S., Varaprasada Rao R.	International Journal of Engineering and Advanced Technology	2019	0	Vardhaman College of Engineering	0
Crescent shaped slot mmwave array antenna for future 5g femtocells applications	Harini V., Sairam M.V.S., Madhu R., Naresh Kumar M.	International Journal of Engineering and Advanced Technology	2019	0	Vardhaman College of Engineering	0
Thermal face recognition using bag of words	Sumalatha R., Varaprasada Rao R., Rajasekhar D.	International Journal of Innovative Technology and Exploring Engineering	2019	0	Vardhaman College of Engineering	0
Enhanced expectation-maximization clustering through Gaussian mixture models	Nagarjuna Reddy S., Sai Satyanarayana Reddy S., Babu Reddy M.	International Journal of Innovative Technology and Exploring Engineering	2019	0	Vardhaman College of Engineering	0
Machine learning based power efficient approximate 4:2 compressors for imprecise multipliers	Maddiseti L., Ravindra J.V.R.	Proceedings 32nd International Conference on VLSI Design, VLSID 2019 Held concurrently with 18th International Conference on Embedded Systems, ES 2019	2019	0	Vardhaman College of Engineering	0
Groundwater quality assessment in kattedan industrial area, Hyderabad, India	Hari D.	International Journal of Recent Technology and Engineering	2019	0	Vardhaman College of Engineering	0
Power and area optimized FRACSLA for highspeed NoC applications	Singh S., Ravindra J.V.R., Rajendra Naik B.	International Journal of Advanced Trends in Computer Science and Engineering	2019	0	Vardhaman College of Engineering	0
Synthesis, optimization and applications of ZnO/polymer nanocomposites	Ponnamma D., Cabibihan J.J., Rajan M., Pethaiah S.S., Deshmukh K., Gogoi J.P., Pasha S.K.K., Ahamed M.B., Krishnegowda J., Chandrashekar B.N., Polu A.R., Cheng C.	Materials Science and Engineering C	2019	6	Vardhaman College of Engineering	6

A Secure Technique of Image Fusion Using Cloud Based Copyright Protection for Data Distribution	Kumar A., Gupta S.	Proceedings of the 8th International Advance Computing Conference, IACC 2018	2019	0	Vardhaman College of Engineering	0
Effects of CNTs blending on the superconducting parameters of YBCO superconductor	Sahoo B., Mohapatra S.R., Singh A.K., Samal D., Behera D.	Ceramics International	2019	2	Vardhaman College of Engineering	2
Twitter based capital market analysis using cloud statistics	Gupta S., Aluvalu R.	International Journal of Sociotechnology and Knowledge Development	2019	0	Vardhaman College of Engineering	0
Neutron diffraction and short range ordering study in multiferroic Bi ₂ Fe ₄ O ₉	Singh A.K., Mohapatra S.R., Khare P., Ganguli N., Wildes A., Siruguri V., Kaushik S.D.	Materials Research Express	2019	0	Vardhaman College of Engineering	0
Nonlinear System Identification and Control: Rop Scheme and Neural Networks	Raja Genal R.B.	Proceedings of the 2nd International Conference on Intelligent Computing and Control Systems, ICICCS 2018	2019	0	Vardhaman College of Engineering	0
Training neural network as approximate 4:2 compressor applying machine learning algorithms for accuracy comparison	Maddisetti L., Senapati R.K., Ravindra J.V.R.	International Journal of Advanced Trends in Computer Science and Engineering	2019	1	Vardhaman College of Engineering	1
A novel parallel duty cycle control algorithm for photovoltaic voltage regulator system using FPGA	Prathap J.A., Anandhi T.S.	Microprocessors and Microsystems	2019	0	Vardhaman College of Engineering	0
Performance Metrics of Inexact Multipliers Based on Approximate 5:2 Compressors	Maddisetti L., Ravindra J.V.R.	Proceedings International SoC Design Conference 2018, ISOCC 2018	2019	0	Vardhaman College of Engineering	0
Nonisolated modified quadratic boost converter with midpoint output for solar photovoltaic applications	Ravivarman S., Natarajan K., Raja Gopal R.B.	E3S Web of Conferences	2019	0	Vardhaman College of Engineering	0
Capacity fade modeling of liion battery using evolutionary algorithm	Tamilselvi S., Karuppiyah N., Rajagopal Reddy B.	E3S Web of Conferences	2019	0	Vardhaman College of Engineering	0
Sharp rejection microstrip ultrawide bandstop filter	Nakerikanti M., Prasad R.M., Srujan S., Saikrishna M., Sekhar M.	International Journal of Recent Technology and Engineering	2019	0	Vardhaman College of Engineering	0
Compact dual band printed dipole antenna for wireless communication systems	Sreenu S., Sekhar M.	International Journal of Recent Technology and Engineering	2019	0	Vardhaman College of Engineering	0
A study on relationship between emotional intelligence, ethical ideology, job performance and employee engagement in telangana autonomous engineering colleges	Kola J., Challapalli P.	Quality Access to Success	2019	0	Vardhaman College of Engineering	0
Application of local invariant symmetry features to detect and localize image copy move forgeries	Vaishnavi D., Subashini T.S.	Journal of Information Security and Applications	2019	0	Vardhaman College of Engineering	0

The development of hybrid aluminiumdiamondhexagonal boron nitride metal matrix composites for heat sink applications	Chakradhar K.V.P., Anil Kumar V., Sairam K.	International Journal of Mechanical and Production Engineering Research and Development	2019	0	Vardhaman College of Engineering	0
A Novel Nanocomposite Polymer Electrolyte for Application in Solid State Lithium Ion Battery	Satyanarayana Reddy S.S., Ravindra J.V.R., Reddy N.H., Polu A.R.	Proceedings of the IEEE Conference on Nanotechnology	2019	0	Vardhaman College of Engineering	0
Unstructured Data Analysis with PassphraseBased REST API NoSQL for Big Data in Cloud	Sangeeta Gupta	Lecture Notes in Networks and Systems	2019	0	Vardhaman College of Engineering	0
Intrusion detection in wireless network using fuzzy logic implemented with genetic algorithm	Sai Satyanarayana Reddy S., Chatterjee P., Mamatha C.	Lecture Notes in Networks and Systems	2019	0	Vardhaman College of Engineering	0
Adaptive compressive sensing of images using VSBCD algorithm and improvement	Madhavi M., Swetha Priyanka J.	International Journal of Innovative Technology and Exploring Engineering	2019	0	Vardhaman College of Engineering	0
Data Analytics: Role of Activation function In Neural Net	Dhana Sree K.	International Journal of Innovative Technology and Exploring Engineering	2019	0	Vardhaman College of Engineering	0
Durability studies on alkali activated fly ash and GGBSBased geopolymer mortars	Mallikarjuna Rao G., Kireety C.H.	Lecture Notes in Civil Engineering	2019	0	Vardhaman College of Engineering	0
Software modernization through model transformations	Kandukuri P.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0
Attacks on twokey elliptic curve digital signature algorithm	Anil Kumar N., Gopi Chand M.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0
Indepth analysis of charge leakage through vegetation in transmission and distribution lines	Jain H.S., Devabhaktuni S., Sairama T.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0
An integrated schema for efficient face recognition in social networking platforms	Shahabadkar R., Sai Satyanarayana Reddy S.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0
Investigations on power dissipation of low power vlsi architectures for voltage level shifters	Karunakaran S., Poonguzharselvi B.	Journal of Advanced Research in Dynamical and Control Systems	2019	0	Vardhaman College of Engineering	0
A Novel Approach for Predicting Nativity Language of the Authors by Analyzing Their Written Texts	Uppendar P., Murali Mohan T., Lokesh Naik S.K., Reddy T.R.	Lecture Notes in Networks and Systems	2019	0	Vardhaman College of Engineering	0
Difference expansion based reversible data embedding and edge detection	Gujjunoori S., Oruganti M.	Multimedia Tools and Applications	2019	0	Vardhaman College of Engineering	0
Awareness and usage of eresources by faculty members at Vardhaman College of Engineering (Autonomous), Hyderabad: A study	Palikiti S., Chinna Balu C., Narendra A.	Library Philosophy and Practice	2019	0	Vardhaman College of Engineering	0
Implication of Artificial Intelligence to Enhance the	Shahabadkar R., Shahabadkar K.R.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0

Security Aspects of Cloud Enabled Internet of Things (IoT)						
An efficient system for detection of mitosis for breast cancer screening	Selvamani I., Kumar M.N.	Journal of International Pharmaceutical Research	2019	0	Vardhaman College of Engineering	0
Design of Wallace Tree Multiplier Using Sparse KoggeStone and Brent-Kung Adders	Lokesh Chowdary M., Mallaiah A., Jaya Lakshmi A.	Lecture Notes in Networks and Systems	2019	0	Vardhaman College of Engineering	0
VLSI implementation of folded FIR filter structures using high speed multipliers	Karunakaran S., Gattim N.K.	Journal of Engineering and Applied Sciences	2019	0	Vardhaman College of Engineering	0
A study on the strength and performance of geopolymer concrete subjected to elevated temperatures	Mallikarjuna Rao G., Gunneswara Rao T.D., Siva Nagi Reddy M., Rama Seshu D.	Lecture Notes in Civil Engineering	2019	0	Vardhaman College of Engineering	0
Behaviour thresholds of quarry dust-bentonite mixes	Raghu P., Pillai R.J.	Lecture Notes in Civil Engineering	2019	0	Vardhaman College of Engineering	0
IoTbased embedded smart lock control using face recognition system	Krishna Chaithanya J., Satish Kumar G.A.E., Ramasri T.	Lecture Notes in Computational Vision and Biomechanics	2019	0	Vardhaman College of Engineering	0
Correlative feature selection for multimodal medical image fusion through QWT	Krishna Chaithanya J., Kumar G.A.E.S., Ramasri T.	Lecture Notes in Computational Vision and Biomechanics	2019	0	Vardhaman College of Engineering	0
Simulation of dielectric and impedance data using modified Lorentz equation in accordance with experimental data on Ca _{0.1} Sr _{0.9} LaxBi ₂ xTa ₂ O ₉ ceramics	Rizwana, Mahboob S., Sarah P.	Ferroelectrics	2018	0	Vardhaman College of Engineering	0
Author profiling approach for location prediction	Srikanth Reddy G., Murali Mohan T., Raghunadha Reddy T.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0
Bioinformatics and image processing –Detection of plant diseases	Hanuman Reddy N., Ravi Kumar E., Vinay Reddy M., Raghavender Reddy K.L., Susmitha Valli G.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0
A New Approach for Authorship Verification Using Information Retrieval Features	Kumar S., Rajeswari S., Srikanth M., Reddy T.R.	Lecture Notes in Networks and Systems	2019	0	Vardhaman College of Engineering	0
Dynamics of an seir epidemic model with time delay	Madhusudhan Reddy K., Narayan K.L., Ravindra Reddy B.	Journal of Advanced Research in Dynamical and Control Systems	2019	1	Vardhaman College of Engineering	1
Influence of dysprosium on the dielectric properties of bismuth layered structured piezoceramics	Rajashekhar G., Sreekanth T., Aparna Y., Sarah P.	Rasayan Journal of Chemistry	2019	1	Vardhaman College of Engineering	1
Lightweight deflectometer for compaction quality control	Hariprasad C., Umashankar B., Garala T.K.	Lecture Notes in Civil Engineering	2019	0	Vardhaman College of Engineering	1
Improving student academic performance using an attribute selection algorithm	Anvesh K., Srilatha M., Raghunadha Reddy T., Gopi Chand M., Jyothi G.D.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0
Difference expansion based near	Oruganti M., Sabitha C., Ghosh	Advances in Intelligent Systems	2019	0	Vardhaman College of	0

reversible data hiding scheme	B., Neeraja K., Hemanath K.	and Computing			Engineering	
KAZE feature based passive image forgery detection	Vaishnavi D., Balaji G.N., Mahalakshmi D.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0
Impact of term weight measures for author identification	Sreenivas M., Raghunadha Reddy T., Vishnu Vardhan B.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0
A new document representation approach for gender prediction using author profiles	Raghunadha Reddy T., Lakshminarayana M., Vishnu Vardhan B., Sai Prasad K., Amarnath Reddy E.	Advances in Intelligent Systems and Computing	2019	0	Vardhaman College of Engineering	0
Performance Metrics of Imprecise Multipliers Based on Proximate Compressors for IIR Filters	Lavanya M., Ravindra J.V.R.	Proceedings of the International Conference on Microelectronics, ICM	2019	0	Vardhaman College of Engineering	0
Effect of Sm and Na substitution on dielectric properties of SrBi ₄ Ti ₄ O ₁₅	P.Sarah	Ferroelectrics	2018	0.675	Vardhaman College of Engineering	0
Simulation of dielectric and impedance data using modified Lorentz equation in accordance with experimental data on Ca _{0.1} Sr _{0.9} LaxBi ₂ xTa ₂ O ₉ ceramics.	P.Sarah	Ferroelectrics	2018	0.675	Vardhaman College of Engineering	0
Electrical properties of sodium and neodymium modified SrBi ₄ Ti ₄ O ₁₅ piezoelectric ceramics	P.Sarah	Ferroelectrics	2018	0.674	Vardhaman College of Engineering	4
Impedance and electromechanical studies on Ca _{0.1} Sr _{0.9} Lax Bi ₂ x Ta ₂ O ₉ ceramics	P.Sarah	Ferroelectrics	2018	0.67	Vardhaman College of Engineering Vardhaman College of Engineering	3
Electromechanical coupling studies on Sr ₁₂ x Nax Ndx Bi ₄ Ti ₄ O ₁₅ compounds in free and clamped state for transducer application	P.Sarah	Ferroelectrics	2018	0.67	Vardhaman College of Engineering	0
Effect of Sm and Na substitution on dielectric properties of SrBi ₄ Ti ₄ O ₁₅	P.Sarah	Ferroelectrics	2018	0.67	Vardhaman College of Engineering	0
Influence of Na, Sm substitution on dielectric properties of SBT ceramics	Ravikiran U., Sarah P., Anand G., Zacharias E.	Ceramics International	2019	0	Vardhaman College of Engineering	0
Intelligent visual object tracking with particle filter based on Modified Grey Wolf Optimizer	Narayana M., Nenavath H., Chavan S., Koteswara Rao L.	Optik	2019	0	Vardhaman College of Engineering	0
Impedance spectroscopy studies on samarium and sodium substituted strontium bismuth titanate (SBTi)	Ravikiran U., Zacharias E., Rajashekhar G., Sarah P.	Ceramics International	2019	0	Vardhaman College of Engineering	0

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3.4.6 - h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Bioinformatics and image processing- Detection of plant diseases	Hanuman Reddy N., Ravi Kumar E., Vinay Reddy M., Raghavender Reddy K.L., Susmitha Valli G.	Advances in Intelligent Systems and Computing	2019	0	0	Vardhaman College of Engineering
A New Approach for Authorship Verification Using Information Retrieval Features	Kumar S., Rajeswari S., Srikanth M., Reddy T.R.	Lecture Notes in Networks and Systems	2019	0	0	Vardhaman College of Engineering
Dynamics of an seir epidemic model with time delay	Madhusudhan Reddy K., Narayan K.L., Ravindra Reddy B.	Journal of Advanced Research in Dynamical and Control Systems	2019	1	1	Vardhaman College of Engineering
Influence of dysprosium on the dielectric properties of bismuth layered structured piezoceramics	Rajashekhar G., Sreekanth T., Aparna Y., Sarah P.	Rasayan Journal of Chemistry	2019	1	1	Vardhaman College of Engineering
Lightweight deflectometer for compaction quality control	Hariprasad C., Umashankar B., Garala T.K.	Lecture Notes in Civil Engineering	2019	0	0	Vardhaman College of Engineering
Improving student academic performance using an attribute selection algorithm	Anvesh K., Srilatha M., Raghunadha Reddy T., Gopi Chand M., Jyothi G.D.	Advances in Intelligent Systems and Computing	2019	0	0	Vardhaman College of Engineering
Difference expansion based near reversible data hiding scheme	Oruganti M., Sabitha C., Ghosh B., Neeraja K., Hemanath K.	Advances in Intelligent Systems and Computing	2019	0	0	Vardhaman College of Engineering
KAZE feature based passive image forgery detection	Vaishnavi D., Balaji G.N., Mahalakshmi D.	Advances in Intelligent Systems and Computing	2019	0	0	Vardhaman College of Engineering
Impact of term weight measures for author identification	Sreenivas M., Raghunadha Reddy T., Vishnu Vardhan B.	Advances in Intelligent Systems and Computing	2019	0	0	Vardhaman College of Engineering
A new document representation approach for gender prediction using author profiles	Raghunadha Reddy T., Lakshminarayana M., Vishnu Vardhan B., Sai Prasad K., Amarnath Reddy E.	Advances in Intelligent Systems and Computing	2019	0	0	Vardhaman College of Engineering
Performance Metrics of Imprecise Multipliers Based on Proximate Compressors for IIR Filters	Lavanya M., Ravindra J.V.R.	Proceedings of the International Conference on Microelectronics, ICM	2019	0	0	Vardhaman College of Engineering
Effect of Sm and Na substitution on dielectric properties of SrBi ₄ Ti ₄ O ₁₅	P.Sarah	Ferroelectrics	2018	15	0	Vardhaman College of Engineering
Simulation of dielectric and impedance data using modified Lorentz equation	P.Sarah	Ferroelectrics	2018	15	0	Vardhaman College of Engineering

in accordance with experimental data on Ca _{0.1} Sr _{0.9} LaxBi _{2x} Ta ₂ O ₉ ceramics.						
Electrical properties of sodium and neodymium modified SrBi ₄ Ti ₄ O ₁₅ piezoelectric ceramics	P.Sarah	Ferroelectrics	2018	15	0	Vardhaman College of Engineering
Impedance and electromechanical studies on Ca _{0.1} Sr _{0.9} Lax Bi _{2x} Ta ₂ O ₉ ceramics	P.Sarah	Ferroelectrics	2018	15	0	Vardhaman College of Engineering
Electromechanical coupling studies on Sr _{12x} Nax Ndx Bi ₄ Ti ₄ O ₁₅ compounds in free and clampedstate for transducer application	P.Sarah	Ferroelectrics	2018	15	0	Vardhaman College of Engineering
Effect of Sm and Na substitution on dielectric properties of SrBi ₄ Ti ₄ O ₁₅	P.Sarah	Ferroelectrics	2018	15	0	Vardhaman College of Engineering
Influence of Na, Sm substitution on dielectric properties of SBT ceramics	Sarah P	Ceramics International	2019	15	0	Vardhaman College of Engineering
Intelligent visual object tracking with particle filter based on Modified Grey Wolf Optimizer	Narayana M	Optik	2019	0	0	Vardhaman College of Engineering
Impedance spectroscopy studies on samarium and sodium substituted strontium bismuth titanate (SBTi)	Sarah P.	Ceramics International	2019	15	0	Vardhaman College of Engineering
Fusion of visible and infrared image features for face recognition	Sumalatha R	International Journal of Engineering and Advanced Technology	2019	2	0	Vardhaman College of Engineering
Crescent shaped slot mmwave array antenna for future 5g femtocells applications	Harini V	International Journal of Engineering and Advanced Technology	2019	1	0	Vardhaman College of Engineering
Thermal face recognition using bag of words	Sumalatha R., Varaprasada Rao R., Rajasekhar D.	International Journal of Innovative Technology and Exploring Engineering	2019	0	0	Vardhaman College of Engineering
Enhanced expectation-maximization clustering through Gaussian mixture models	Nagarjuna Reddy S., Sai Satyanarayana Reddy S., Babu Reddy M.	International Journal of Innovative Technology and Exploring Engineering	2019	0	0	Vardhaman College of Engineering
Machine learning based power efficient approximate 4:2 compressors for imprecise multipliers	Maddiseti L., Ravindra J.V.R.	Proceedings 32nd International Conference on VLSI Design, VLSID 2019 Held concurrently with 18th International Conference on Embedded Systems, ES 2019	2019	0	0	Vardhaman College of Engineering
Groundwater quality assessment in kattedan industrial area, Hyderabad, India	Hari D.	International Journal of Recent Technology and Engineering	2019	0	0	Vardhaman College of Engineering
Power and area optimized FRACSLA for highspeed NoC applications	Singh S., Ravindra J.V.R., Rajendra Naik B.	International Journal of Advanced Trends in Computer Science and Engineering	2019	0	0	Vardhaman College of Engineering

Synthesis, optimization and applications of ZnO/polymer nanocomposites	Ponnamma D., Cabibihan J.J., Rajan M., Pethaiah S.S., Deshmukh K., Gogoi J.P., Pasha S.K.K., Ahamed M.B., Krishnegowda J., Chandrashekar B.N., Polu A.R., Cheng C.	Materials Science and Engineering C	2019	6	6	Vardhaman College of Engineering
A Secure Technique of Image Fusion Using Cloud Based Copyright Protection for Data Distribution	Kumar A., Gupta S.	Proceedings of the 8th International Advance Computing Conference, IACC 2018	2019	0	0	Vardhaman College of Engineering
Effects of CNTs blending on the superconducting parameters of YBCO superconductor	Sahoo B., Mohapatra S.R., Singh A.K., Samal D., Behera D.	Ceramics International	2019	2	2	Vardhaman College of Engineering
Twitter based capital market analysis using cloud statistics	Gupta S., Aluvalu R.	International Journal of Sociotechnology and Knowledge Development	2019	0	0	Vardhaman College of Engineering
Neutron diffraction and short range ordering study in multiferroic Bi ₂ Fe ₄ O ₉	Singh A.K., Mohapatra S.R., Khare P., Ganguli N., Wildes A., Siruguri V., Kaushik S.D.	Materials Research Express	2019	0	0	Vardhaman College of Engineering
Nonlinear System Identification and Control: Rop Scheme and Neural Networks	Raja Genal R.B.	Proceedings of the 2nd International Conference on Intelligent Computing and Control Systems, ICICCS 2018	2019	0	0	Vardhaman College of Engineering
Training neural network as approximate 4:2 compressor applying machine learning algorithms for accuracy comparison	Maddiseti L., Senapati R.K., Ravindra J.V.R.	International Journal of Advanced Trends in Computer Science and Engineering	2019	1	1	Vardhaman College of Engineering
A novel parallel duty cycle control algorithm for photovoltaic voltage regulator system using FPGA	Prathap J.A., Anandhi T.S.	Microprocessors and Microsystems	2019	0	0	Vardhaman College of Engineering
Performance Metrics of Inexact Multipliers Based on Approximate 5:2 Compressors	Maddiseti L., Ravindra J.V.R.	Proceedings International SoC Design Conference 2018, ISOC 2018	2019	0	0	Vardhaman College of Engineering
Nonisolated modified quadratic boost converter with midpoint output for solar photovoltaic applications	Ravivarman S., Natarajan K., Raja Gopal R.B.	E3S Web of Conferences	2019	0	0	Vardhaman College of Engineering
Capacity fade modeling of liion battery using evolutionary algorithm	Tamilselvi S., Karuppiyah N., Rajagopal Reddy B.	E3S Web of Conferences	2019	0	0	Vardhaman College of Engineering
Sharp rejection microstrip ultrawide bandstop filter	Nakerikanti M., Prasad R.M., Srujan S., Saikrishna M., Sekhar M.	International Journal of Recent Technology and Engineering	2019	0	0	Vardhaman College of Engineering
Compact dual band printed dipole antenna for wireless communication systems	Sreenu S., Sekhar M.	International Journal of Recent Technology and Engineering	2019	0	0	Vardhaman College of Engineering
A study on relationship between emotional intelligence, ethical ideology, job performance and employee	Kola J., Challapalli P.	Quality Access to Success	2019	0	0	Vardhaman College of Engineering

engagement in telangana autonomous engineering colleges						
Application of local invariant symmetry features to detect and localize image copy move forgeries	Vaishnavi D., Subashini T.S.	Journal of Information Security and Applications	2019	0	0	Vardhaman College of Engineering
The development of hybrid aluminiumdiamondhexagonal boron nitride metal matrix composites for heat sink applications	Chakradhar K.V.P., Anil Kumar V., Sairam K.	International Journal of Mechanical and Production Engineering Research and Development	2019	0	0	Vardhaman College of Engineering
A Novel Nanocomposite Polymer Electrolyte for Application in Solid State Lithium Ion Battery	Satyanarayana Reddy S.S., Ravindra J.V.R., Reddy N.H., Polu A.R.	Proceedings of the IEEE Conference on Nanotechnology	2019	0	0	Vardhaman College of Engineering
Unstructured Data Analysis with PassphraseBased REST API NoSQL for Big Data in Cloud	Sangeeta Gupta	Lecture Notes in Networks and Systems	2019	0	0	Vardhaman College of Engineering
Intrusion detection in wireless network using fuzzy logic implemented with genetic algorithm	Sai Satyanarayana Reddy S., Chatterjee P., Mamatha C.	Lecture Notes in Networks and Systems	2019	0	0	Vardhaman College of Engineering
Adaptive compressive sensing of images using VSBCD algorithm and improvement	Madhavi M., Swetha Priyanka J.	International Journal of Innovative Technology and Exploring Engineering	2019	0	0	Vardhaman College of Engineering
Data Analytics: Role of Activation function In Neural Net	Dhana Sree K.	International Journal of Innovative Technology and Exploring Engineering	2019	0	0	Vardhaman College of Engineering
Durability studies on alkali activated fly ash and GGBSBased geopolymer mortars	Mallikarjuna Rao G., Kireety C.H.	Lecture Notes in Civil Engineering	2019	0	0	Vardhaman College of Engineering
Software modernization through model transformations	Kandukuri P.	Advances in Intelligent Systems and Computing	2019	0	0	Vardhaman College of Engineering
Attacks on twokey elliptic curve digital signature algorithm	Anil Kumar N., Gopi Chand M.	Advances in Intelligent Systems and Computing	2019	0	0	Vardhaman College of Engineering
Indepth analysis of charge leakage through vegetation in transmission and distribution lines	Jain H.S., Devabhaktuni S., Sairama T.	Advances in Intelligent Systems and Computing	2019	0	0	Vardhaman College of Engineering
An integrated schema for efficient face recognition in social networking platforms	Shahabadkar R., Sai Satyanarayana Reddy S.	Advances in Intelligent Systems and Computing	2019	0	0	Vardhaman College of Engineering
Investigations on power dissipation of low power vlsi architectures for voltage level shifters	Karunakaran S., Poonguzharselvi B.	Journal of Advanced Research in Dynamical and Control Systems	2019	0	0	Vardhaman College of Engineering
A Novel Approach for Predicting Nativity Language of the Authors by Analyzing Their Written Texts	Upendar P., Murali Mohan T., Lokesh Naik S.K., Reddy T.R.	Lecture Notes in Networks and Systems	2019	0	0	Vardhaman College of Engineering
Difference expansion based reversible data embedding and edge detection	Gujjunoori S., Oruganti M.	Multimedia Tools and Applications	2019	0	0	Vardhaman College of

Electrical and Electronics Engineering	FDP on Deep Learning and Applications	EN ICT Academy, MNIT, Jaipur	50000
Electronics and Communication Engineering	Digital Power supplies	Parashakthi powers Limited	290000
Electronics and Communication Engineering	Industrial Timer Control Boards	Embedded RF Technologies	265000
Civil Engineering	Bandla Bali Reddy	Consultancy	110000
Mechanical Engineering	Planetary Ball Mill	Genesis Bio Solustions, Tarnaka, Hyderabad	250000

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3.5.2 - Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
0	0	0	0	0

3.6 - Extension Activities

3.6.1 - Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Ambedkar Jayanthi	JNTUH, Hyderabad	1	50
Awarness Rally on STOP CHILD ABUSE	MCR Foundation, Uppal	1	12
Services for Orphange Kids	Mathru Abhaya Foundation	2	10
Different Activities at Narkhoda Village (15 Days)	Swachh Bharath Summer Internship	5	32
Swachh Pakhwada	JNTUH, Hyderabad	3	10
Kerala Flood Relief Activities	Dhruvansh Organisation	3	42
Community CPR at Gandhi Hosital	Gandhi Hosital	3	10
NSS Day Celebrations	JNTUH, Hyderabad	2	6
Gandhi Jayanthi	Gandhi Hospital	2	5
Free Eye Camp Screening Test	Vardhaman College of Engineering	5	616
Web Casting Training	Vardhaman College of Engineering	5	197
Election duty for Web casting	Rajendra Nagar Circle Election Office	5	88
Election duty for Web casting	Rajendra Nagar Circle Election Office	5	88
Election duty for Q Line	Shamshabad Police officers	4	98
National Integration Camp	JNTUH, Hyderabad	1	1
Web casting Training	Training for Sarpanch Election duty in the Vardhaman Campus	5	102
Volunteers for Sarpanch Elections	Web Casting at Shamshabad Mandal	5	65
Voters Day Awareness	New Registrations on Voters Day in the Vardhaman Campus.	4	100

University level Youth Festival	JNTUH, Hyderabad	2	22
World Cancer Day	Awareness Rally Conducted by ISKCON, Kukatpally	2	10
Village Survey	Survey to know the needs and Issues in the Village Narkhoda	5	50
School Visit Narkhoda	Interacting with all students to know their problems and their talents.	5	50
Creating Awareness on Digital Transaction	Creating awareness on how to do online transactions	4	50
Swachh Schools	Cleaning Narkhoda School and Drawing Competittion	3	50
White Wash to School Rooms	White wash for 10th Class Narkhoda	2	50
Dental Camp	Narkhoda Village (Public and School Children)	2	50
Tailoring Training Program	Basics of tailoring getting trained for 75 women in Narkhoda	5	50
Computer Classes	For 5th7th Classes in Narkhoda School	3	50
Computer Classes	For 8th10th Classes in Narkhoda School	3	50
Women Empowerment program	JNTU, HYDERABAD	5	136
Womens Day Celebrations	Tailoring Classes for Rayanna Guda Village and Celebrations in the Campus	5	330
Pulse Polio	Volunteer Service for Red Cross Society , DSNR, Hyderabad	4	54
One Day Work shop on Rural Development	JNTUH, Hyderabad	1	1

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3.6.2 - Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Youth Festival	Event Judge by University	JNTUH, Hyderabad	22
Unnat Bharat Abhiyan	Approved by District Collector Office	AICTE NewDelhi	102

3.6.3 - Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swachh Bharath Summer Internship (SBSI)	Vardhaman College of Engineering	Awarness Programs and Computer Training	5	32
Pulse Polio	Red Cross Society, Dilsukh Nagar	Polio drops for childern in different localities	4	54
Stop child abuse	MCR Foundation, Uppal	Creat awareness on stop child abuse for the public	1	12
Women Empowerment Program	JNTUH, Hyderabad	Women Empowerment program	5	136
Rural Health	Sri Sai Dental College,	Dental checkup and treatement	2	50

Vikarabad

3.7 - Collaborations**3.7.1 - Number of Collaborative activities for research, faculty exchange, student exchange during the year**

Nature of activity	Participant	Source of financial support	Duration
VSAT	Dr Ch Sulakshana	Vardhaman College of Engineering	1

3.7.2 - Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industrial internship	Construction Practices as per geotechnical aspect	Structural and Geotechnical Consultants, Hyderabad	25/05/2019	02/06/2019	1
Industrial internship	Study of quality control at RMC plant	Ultratech cement limited, Hyderabad	12/05/2019	22/05/2019	1
Industrial internship	Structural drafting and detailing	SR technologies, Hyderabad	02/05/2019	15/05/2019	1
Industrial internship	Estimation of land surface temperature using remote sensing and GIS techniques	Adepto Geomatics pvt. Limited, Hyderabad	16/05/2019	31/05/2019	1
Industrial internship	Construction Practices	Prodhvi Aithya Infratech Limited, Hyderabad	13/05/2019	08/06/2019	1
Industrial internship	Analysis of repair and rehabilitation of G3 structure in Zone III	NVLN Constructions	13/05/2019	25/05/2019	1
Industry	Research and Development	M/s. Parashakthi Power Technologies Pvt Ltd, Hyderabad	06/07/2018	30/06/2019	1

[View File](#)**3.7.3 - MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year**

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Machine Intelligence Research Labs	22/05/2019	To organize the following two international events during 13th to 15th December 2019. a)11th International Conference on Soft Computing and Pattern recognition (SoCPaR 2019) b)9th World Congress on Nature and Biologically Inspired Computing (NaBIC)	100
Risesharp	16/01/2019	Improve Student Outcomes, Job Search, Attract Employers	200
Idealabs	03/10/2018	Mentor Connect, Boot Camps, Hackathons, Corporate Challenges, International contests, and etc related to Entrepreneurship Development and Promotion	250
Berkadia Services India Private Limited	23/08/2018	Develop the JCP Curriculum Student Training Conduct for Guest Lectures Student Recruitment	50
Eleven01	25/07/2018	Mentor Connect, Boot Camps, Hackathons, Corporate Challenges, International contests, and etc related to Entrepreneurship Development and Promotion	150
BYJU'S	18/07/2018	Teaching Material including video material Membean Software Diagnostic Tool Kit	100

Indian Technology Congress Association	02/08/2018	Building and launching of student satellite, Assistance to Patent Filing, Ideas, Innovation	150
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CRITERION IV - INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
260	258.5

4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Seminar halls with ICT facilities	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Campus Area	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added

4.2 - Library as a Learning Resource

4.2.1 - Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
NewGenLib (open source software)	Fully	3.1.4	2010

4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	63188	13277434	2083	856367	65271	14133801
Reference Books	10873	2982473	138	146885	11011	3129358
e-Books	95802	233203	4101613	123870	4197415	357073
Journals	186	331478	167	339682	353	671160
e-Journals	5306	2224653	5020	1258173	10326	3482826
Digital Database	0	0	1	1087223	1	1087223
CD & Video	3767	0	71	0	3838	0
Library Automation	1	12390	0	0	1	12390

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4.2.3 - E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mr.K. Narasimha Reddy	Control Systems	eResources	01/08/2018
Dr.J. Krishna Chaitanya	Micro Processors and MicroControllers	eResources	01/08/2018
Mr. M. Gopi Krishna	Computer Organization and Architecture	eResources	05/09/2018
Dr.J. Krishna Chaitanya	Embedded Systems	eResources	10/10/2018
Dr.D.Krishna	Random Variables and Stochastic Process	eResources	10/10/2018
Ms. C. Padmini	Integrated Circuits and Analysys	eResources	01/08/2018
Mr.S.Rajender	Electronics Devices and Circuits	eResources	01/08/2018
Ms. A.Jaya Lakshmi	Satellite Communications	eResources	05/09/2018
S. Ravivarman	Power System Transients	MOODLE	01/12/2018
S. Ravivarman	Computer Organization and Architecture	CMS (WordPress)	05/07/2018
S. Ravivarman	Digital Control of Power Electronics and Drive Systems	CMS (WordPress)	01/12/2018
S. Ravivarman	Blended Learning Essentials	MOODLE	10/06/2018
N. Karuppiah	Power System Operation and Control	Google Classroom	01/12/2018
N. Karuppiah	Utilization of Electrical Energy	Google Classroom	05/07/2018
N. Karuppiah	Computer Organization and Architecture	Google Classroom	05/07/2018
Mr. J Rohan Reddy	Estimation and Costing	eResources	21/08/2018
Mr. J Rohan Reddy	Building Planning and Design	eResources	03/12/2018
Dr. Dharmesh Lal	Geotechnical EngineeringI	eResources	06/08/2018
Dr. Dharmesh Lal	Geotechnical EngineeringII	eResources	02/01/2019
Mr. S. Siddhartha	Fluid Mechanics	eResources	01/08/2018
Mr. S. Siddhartha	Water Resources and engineeringI	eResources	01/08/2018
Mr. S. Siddhartha	Hydraulics and Hydraulic machinery	eResources	02/01/2019
Mr. S. Raghu	Air Pollution and Control	eResources	07/01/2019
Ms. V. Renuka	Water Resources and engineeringII	eResources	11/09/2018
Ms. V. Renuka	Strength of Materials II	eResources	08/01/2019
Mr. Ch. Kireety	Repair and Rehabilitation of Structures	eResources	04/01/2019
Mr. Ch. Kireety	Engineering Geology	eResources	01/08/2018
Ms. T. Bhavani	Environmental impact and assessment	eResources	06/12/2018
Ms. T. Bhavani	Building materials and construction	eResources	01/03/2018
Dr. Mallikarjuna Rao	Concrete Technology	eResources	04/01/2019
Dr. Mallikarjuna Rao	Strength of Materials I	eResources	12/09/2018
Ms. H. Durga srilakshmi	Remote sensing and GIS	eResources	06/08/2018
Ms. H. Durga srilakshmi	Environmental Engineering	eResources	09/01/2019
Dr. M. Gopi Chand	Software Engineering	eResources	05/11/2018

Dr. M. Gopi Chand	Computer Graphics	eResources	12/11/2018
Mr. B. Ravinder	Mobile Application Development	eResources	07/11/2018
Mr.N.Srinivasa Reddy	Machine drawing	Wordpress.com	10/07/2018
Mr.D.V Ramana Reddy	Engineering mechanics	Wordpress.com	23/08/2018
Mr.E.Manoj kumar	Fluid mechanics	Wordpress.com	16/07/2018
Mr.N.Srinivasa Reddy	Automobile engineering	moodle.school.com	21/12/2018
K.Jyothsna	Atomic and molecular structure	eResources	04/02/2019
Dr.P.Anji Reddy	Oscillation, waves and optics	eResources	02/08/2018
Dr.P.Sarah	Semiconductors physics	eResources	05/08/2019
Mr.V.Lakshmi Narayana	Probability theory and numerical prolems	eResources	01/08/2019
Y.Sridevi	Technical English and grammer	eResources	07/08/2019
Ms V.Kavitha	Theory of matrices	eResources	06/08/2019
G S Prasada Reddy	DBMS	Wordpress	04/01/2018
S. Venugopal	OOAD	LectureNotes	08/01/2018
Mr. A. Ramesh	Operating Systems	blogspot	12/02/2019
Mr. Pallati Narsimhulu	Computer Networks	blogspot	14/02/2019

4.3 - IT Infrastructure

4.3.1 - Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MGBPS)	Others
Existing	1720	1322	1	100	130	25	84	200	59
Added	3	3							
Total	1723	1325	1	100	130	25	84	200	59

4.3.2 - Bandwidth available of internet connection in the Institution (Leased line)

200 MBPS/ GBPS

4.3.3 - Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Microprocessors and Micro Controllers	https://vardhaman.org/wp-content/uploads/2018/03/Unit-1%20MPMC.pdf
Computer Organization and Architecture	https://vardhaman.org/wp-content/uploads/2018/03/CAO%20Unit-I%20part-3.pdf
Embedded Systems	https://vardhaman.org/wp-content/uploads/2018/03/ES%20Unit-1%20Embedded%20computing.pdf
Random variables and Stochastic process	https://vardhaman.org/wp-content/uploads/2018/03/UNIT-I.pdf
Integrated Circuits and Analysis	https://vardhaman.org/wp-content/uploads/2018/03/UNIT-I.pdf
Electronics Devices and Circuits	https://vardhaman.org/wp-content/uploads/2018/01/EDC_UNIT_-_1.pdf
Satellite Communications	https://vardhaman.org/wp-content/uploads/2018/01/UNIT-1.pdf
Atomic and molecular structure	https://vardhaman.org/wp-content/uploads/2018/12/Engineering%20Chemistry%20R18.pdf
Oscillation, waves and optics	https://vardhaman.org/wp-content/uploads/2018/12/Oscillations,Waves%20and%20Optics.pdf
Semiconductors physics	https://vardhaman.org/wp-content/uploads/2018/12/Semiconductor%20Physics.pdf
Probability theory and numerical prolems	https://vardhaman.org/wp-

	content/uploads/2018/12/Probability%20Theory%20and%20Numerical%20Methods.pdf
Technical English and grammer	https://vardhaman.org/wp-content/uploads/2018/12/Technical%20English%20Grammar.pdf
Theory of matrices	https://vardhaman.org/wp-content/uploads/2018/12/Mathematics%20-II.pdf
SCHEMA REFINEMENT AND NORMALISATION	https://gsprasadareddy.files.wordpress.com/2018/12/Lecture-Notes-3.pdf
Introduction to DBMS	https://gsprasadareddy.wordpress.com/my-ideology/
TRANSACTION MANAGEMENT	https://gsprasadareddy.files.wordpress.com/2018/12/Lecture-Notes-4.pdf
OVERVIEW OF STORAGE AND INDEXING	https://gsprasadareddy.files.wordpress.com/2018/12/Lecture-Notes-5.pdf
Conceptual model of UML	https://drive.google.com/drive/folders/1vxAO_H-XWWCKuEbdeLvNNlewXwLkRhBT
UML Diagrams	https://drive.google.com/drive/folders/1J3gfJHtdz8g4eW9371TZWTPcpb_H1wLB
Behavioural Diagrams	https://drive.google.com/drive/folders/1q2MLs3VqLFGjuvDhPyBhLtaPq5Bt4M0n
Control Systems	https://vardhaman.org/wp-content/uploads/2018/12/CS%20NOTES%20ALL.pdf
Power System Transients	http://learnxt.ravivarmans.com/course/view.php?id=4
Computer Organization and Architecture	https://ravivarmans.com/course/computer-organization-and-architecture/
Digital Control of Power Electronics and Drive Systems	https://ravivarmans.com/course/digital-control-of-power-electronics-and-drive-systems/
Blended Learning Essentials	http://learnxt.ravivarmans.com/course/view.php?id=2
Software Engineering	http://vardhamanit.org/e-RESOURCES/e-RESOURCES/IT/material.html
Computer Graphics	http://vardhamanit.org/e-RESOURCES/e-RESOURCES/IT/material.html
Mobile Application Development	http://vardhamanit.org/e-RESOURCES/e-RESOURCES/IT/material.html
Component and Deployment Diagrams	https://drive.google.com/drive/folders/1J_x2wu-z8xdEdYlq5sssDNG4UurIEEba
Case Study: Library Management System	https://drive.google.com/drive/folders/1dCjWLiL1yuHcnhbc-FrDr2MzsJM90Ipn
Introduction to UNIX	https://drive.google.com/file/d/1Sv7SP8t1rXGzaOf98DYUrDbz0Dhlc1hu/view
Introduction to Computer Networks	https://drive.google.com/file/d/1sZdnbsipZTAEKPPM9pIn4LLWgbV8j1B9/view
Data Link Layer	https://drive.google.com/file/d/1Yuc0o7a9SxMZOHgcn_-1qEjHvMfxJ6W/view
Network Layer	https://drive.google.com/file/d/1cnUaU0SozSFq7CCFn4dqs1kYGcwqut4J/view
Transport Layer	https://drive.google.com/file/d/1SVwbRptXoNCcK4igRzgE16mCHMWA4pdc/view
Machine drawing	https://dmnsr.wordpress.com/machine-drawing/
Mechanics of Solids	https://dvr1980.wordpress.com/

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
825	803.51	400	360.84

4.4.2 - Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website)

The institute has well defined policy for maintenance and utilization of all its physical resources and academic facilities which includes use of equipment in various laboratories, use of library facility, access to journals of the institute through internet login and password, use of computers in information processing centers and departmental laboratories. The college has adequate number of the computers with internet connectivity and the utility software's distributed (both internet and intranet) to various locales like office, laboratories, library,

departments etc. All the stakeholders have equal opportunity to use those facilities as per the rules and the policies of the institution. In addition to the class rooms, there are project laboratories, digital classrooms and various auditoriums (with different seating capacities) and a spacious library and information centers are available. The sports cultural facilities encourage students to participate in extra activities in the Institutional and National competitions. There are 16 student forums to encourage their participation in cocurricular and extracurricular activities. A fullfledged website is available which is hosted by the college. The website consists of all the aspects related to academic and administrative policies and guidelines. It also has a unique facility such as student corner/faculty corner which provide unique connectivity with its important stakeholders. The minutes of the college governing body and audit statement of accounts, and mandatory regulations are also published on the website.

https://vardhaman.org/wp-content/uploads/2019/09/4.4.2_Procedures-and-Policies-for-Infrastructure.pdf

CRITERION V - STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	0	0	0
Financial Support from Other Sources			
a) National	TS EPASS FEE REIMBURSMENT (AP TS) and GATE	2037	132174700
b) International	0	0	0

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5.1.2 - Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
BIZHACK Boot Camp	30/05/2019	60	TIE, Hyderabad Chapter
Entrepreneurship Boot Camp	10/07/2018	300	NucleusTech
Bridge course on surveying, barbending and construction management	17/12/2018	20	National Academy of Construction
Bridge course on structural analysis and design using staad pro.	31/01/2019	9	Bentley
Training basics of remote sensing and GIS	18/03/2019	18	Geological Survey of India Training Institute, Hyderabad
Student Mentoring	10/09/2018	3600	Internal faculty
Yoga	02/08/2018	72	NSS Program Unit
Soft skill development Programme (SDP)	16/07/2018	750	SDP (In house) ,Face, Talentia
Remedial Coaching	17/09/2018	450	Internal faculty
Induction Program	19/07/2018	875	Srikanth Surampudi, TCS and Appala Prasad, Swadesi Jagaran
Induction Program	13/08/2018	880	Dr.Murali Krishna.JNTUK and Heartful Institutes
Induction Program	01/10/2018	885	Dr.Panduranga Rao ,IVRCL
Language lab	06/08/2018	885	Internal Faculty
Boot Camp Business Modeling	21/03/2018	42	Wise OWL Consulting Services

Lead Boot Camp

20/03/2018

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IBHubs

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5.1.3 - Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	Placement and Training (Campus Recruitment Training)	745	745	76	562
2018	Advance Java	0	30	0	12
2019	Open Source Technologies	0	20	0	10
2019	GATE Coaching	50	0	22	0

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5.1.4 - Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
3	3	2

5.2 - Student Progression

5.2.1 - Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
63	535	438	16	535	200

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5.2.2 - Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	4	B.Tech	Civil Engineering	NICMAR	M.Tech
2018	1	B.Tech	ECE	University of LEEDS, UK	M.S
2018	1	B.Tech	ECE	Indiana state university	MS
2018	1	B.Tech	ECE	La Trobe University	MS
2018	1	B.Tech	EEE	Vardhaman college of engineering	M.Tech
2018	1	B.Tech	EEE	AUM Warkhawk Access	MS
2018	1	B.Tech	EEE	LA TROBE University	MS
2018	1	B.Tech	EEE	LA Torbe University	MS
2018	1	B.Tech	EEE	Melborne institute of technology	MS
2018	1	B.Tech	EEE	Tuskrgee University	MS
2018	1	B.Tech	EEE	Michigan Technoligical University	MS
2018	1	B.Tech	CSE	State University of Newyork	MS

2018	1	B. Tech	ME	TU-CHEMNTIZ GERMANY	Advanced Manufacturing
2018	1	B. Tech	CSE	JNTUH COLLEGE OF HYD.	M. Tech
2018	1	B. Tech	CSE	BINGHAMTON UNIVERSITY STATE UNIVERSITY OF NEW YORK	MS
2019	1	B. Tech	ECE	SRIDEVI WOMENS ENGINEERING COLLEGE	MBA
2019	1	B. Tech	ECE	OSMANIA UNIVERSITY	M. Tech
2019	1	B. Tech	ECE	DEAKIN UNIVERSITY	MS
2019	1	B. Tech	ECE	IIT, HYDERABAD	M. Tech
2019	1	B. Tech	ECE	CALIFORNIA STATE University	MS
2019	1	B. Tech	ECE	La Trobe University	MS
2019	1	B. Tech	IT	The University of Adelaide	MS
2019	1	B. Tech	Civil Engineering	NIT Kurukshetra	M. Tech
2019	1	B. Tech	Civil Engineering	NIT Jhamshedpur	M. Tech
2019	1	B. Tech	Civil Engineering	OU	M. Tech

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5.2.3 - Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	15
GATE	29
GRE	8
TOFEL	4
Civil Services	1

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5.2.4 - Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Football	Institution	110
Volleyball	Institution	60
Basketball	Institution	65
Cricket	Institution	400
Chess	Institution	95
Caroms	Institution	95
Shuttle Badminton	Institution	135
Table Tennis	Institution	65
Throwball	Institution	38
Kho - Kho	Institution	130

funds to help the needy and deserving students. They also help in arranging NSS extension activities such as Blood Donation camps, practical sessions on Meditation and Tree Plantation. College regularly publish the activities conducted during the academic year to all alumni in the form of Periodical Magazines, Newsletters and Bulletins with valuable information useful to students community. College has an automated alumni platform which includes Epublishing, Job Portal, Alumni Directory, automated mailing system and peertopeer invite links, to better alumni network. This alumni platform is also integrated with social media platform which allows the institution to manage all social media channels via a single point. College invites the alumni for all activities such as Orientation Day Program, Graduation Day Program, Annul Day Program, Cultural Day Program, Sports Events, NSS Activities etc., The alumni contribute to the institution to orient the students on Personality Development, Current Opportunities, Stress Management, Career Management, Time Management, Emotional Awareness etc., Special talks also arranged on Higher Education Topics, Current Events, Industrial revolutions and technological changes. Alumni also help us to conduct Industrial Institution Summit to discuss on latest technologies, opportunities and innovations.

5.4.2 - No. of registered Alumni:

5204

5.4.3 - Alumni contribution during the year (in Rupees) :

230500

5.4.4 - Meetings/activities organized by Alumni Association :

Alumni Meet MITRA 2018 was conducted on 24112018 (Saturday)

CRITERION VI - GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - Mention two practices of decentralization and participative management during the last year (maximum 500 words)

In order to smooth conduct of various activities of administration and academics decentralization is being followed: The college promotes participatory management at various levels through administering academic and administrative activities in uniform way as far as possible. It adopts decentralization policy to effectively administering its functioning through various statutory and non statutory committees. This helps in smooth conduct of academic, financial and administrative activities of the college. The statutory committees are Governing Body, Academic Council, Board of Studies and Finance Committee constituting with the members from Management, Principal, Faculty, University Nominees, Industry Members and academicians from various reputed Institutions. The Governing Body delegates all the academic and operational decisions based on policy to the various monitoring committees headed by the Principal in order to fulfill the Vision and Mission of the Institute. The NonStatutory committees are constituted with the members from Principal, Deans, HODs, Faculty and Staff. The following are the NonStatutory committees: 1. Internal Quality Assurance Cell 2. AntiRagging Committee 3. Grievances and Redressal Center 4. Women Grievance Redressal Cell 5. SC / ST Cell 6. Results Committee 7. Placement Training 8. Library Committee 9. Alumni Committee 10. Sports Committee 11. Centre for Innovation and Entrepreneurship (CIE) 12. Industry Institute Interaction Cell 13. Transport Committee 14. Disciplinary Committee 15. Time Table Committee 16. Research and Development Committee 17. Publication Committee 18. Faculty Selection Committee 19. Admission Committee 20. Academic Audit Committee 21. Student Welfare, CoCurricular, Extra Curricular Activities Committee 22. Examination Committee 23. Internal Complaints Committee 24. Planning and Evaluation Committee The roles and responsibilities are defined for each committee. The committee meets once or Twice in a Year.

6.1.2 - Does the institution have a Management Information System (MIS)?

Yes

6.2 - Strategy Development and Deployment

6.2.1 - Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	Admission into First year of Four Year B. Tech. Degree Program of study in Engineering: Eligibility: A student seeking admission into the first year of four year B. Tech. Degree Program should have (i) Passed either Intermediate Public Examination (I.P.E) conducted by the Board of Intermediate Education, Telangana, with Mathematics, Physics and Chemistry as optional subjects or any equivalent examination recognized by Board of Intermediate Education, Telangana or a Diploma in Engineering in the relevant branch conducted by the Board of Technical Education, Telangana or equivalent Diploma recognized by Board of Technical Education for

admission as per the guidelines of Telangana State Council for Higher Education (TSCHE). (ii) Secured a rank in the EAMCET examination conducted by TSCHE for allotment of a seat by the Convener, EAMCET, for admission into the program offered by the Institution. Admission Procedure: Admissions are made into the first year of four year B.Tech. Degree Program as per the stipulations of TSCHE. (a) Category A seats are filled by the Convener, EAMCET. (b) Category B seats are filled by the Management. Admission into the Second year of Four Year B. Tech. Degree Program in Engineering Eligibility: A student seeking admission under lateral entry into the II year I semester B. Tech. Degree Program should have passed the qualifying exam (B.Sc. Mathematics Diploma holders), based on the rank secured by the student at Engineering Common Entrance Test (FDH) in accordance with the instructions received from the Convener, ECET and Government of Telangana. Admission Procedure: Admissions are made into the II year of four year B. Tech degree Program through Convener, ECET (FDH) 20 against the sanctioned strength in each Program of study under lateral entry scheme. Admission into first year of two Year M.Tech degree program of study: Eligibility Admission to the M.Tech degree program shall be made subject to the eligibility, qualifications and specialization prescribed by Telangana State Council of Higher Education TSCHE, Government of Telangana. Admissions shall be made based on the rank secured in PGCET examination conducted by Telangana State Council for Higher Education (or) GATE examination for allotment of a seat by the Convener, PGCET subject to reservations prescribed by the University or policies formed by the Government of Telangana from time to time. Admission Procedure: Admissions are made into the first year of two year M.Tech program as per the stipulations of Telangana State Council of Higher Education (TSCHE), Government of Telangana. (a) Category A seats are filled by the Convener, PGCET. (b) Category B seats are filled by the Management. Admission into first year of two Year MBA degree program of study: Eligibility Admission to the MBA degree program shall be made subject to the eligibility, qualifications and specialization prescribed by Telangana State Council of Higher Education TSCHE, Government of Telangana. Admissions shall be made based on the rank secured in ICET examination conducted by Telangana State Council for Higher Education for allotment of a seat by the Convener, ICET subject to reservations prescribed by the University or policies formed by the Government of Telangana from time to time. Admission Procedure: Admissions are made into the first year of two year MBA program as per the stipulations of Telangana State Council of Higher Education (TSCHE), Government of Telangana. (a) Category A seats are filled by the Convener, ICET. (b) Category B seats are filled by the Management.

Curriculum Development	1. Choice Based Credit System 2. Industry involvement in designing the curriculum 3. Increasing Professional Elective Component 4. Open Electives to promote Inter Disciplinary projects 5. Introducing Mini Project, mandatory Internship as per AICTE model curriculum 6. Project based labs 7. OutcomeBased Education 8. Integrated Courses for enhancing the learning
Teaching and Learning	1. Good Teaching Learning Processes 2. Higher order learning is ensured through the use of elearning platforms such as Byndr, Edmodo, Word press and etc. 3. Active learning methods (Project Based Learning, JIGSAW, ThinkPairShare, Flipped Class Room, Model Based Learning, Brain Storming, Think Aloud Pair Problem Solving, etc) 4. Experiential learning 5. Inclusion of ebooks, courseware, tutorial modules for each course 6. Course end Mini Projects 7. Industrial visits 8. Collaborative Learning 9. MOOC's, SWAYAM NPTEL/Others 10. Guest lecture by experts from industry to augment current learning experience 11. Industry internships 12. Engineering Projects in Community Services 13. National level and Institute level Hackathons to promote student innovative learning capabilities 14. Skill Development Courses are introduced to make students industry ready
Examination and Evaluation	1. Double Valuation (Internal and External Examiners) 2. Provision to apply for Personal Verification 3. Bar coding 4. Online Multiple Choice Questions 5. Introduced Open Book Examination 6. Introduction of Grade Point Average (GPA) 7. Revaluation 8. Advanced Supplementary for final Semester students of UG and PG 9. Online based Scrutinizing and Tabulation 10. Results will be declared within 3 weeks after the completion of the examination 11. Students can view the results through online portal 12. Malpractice committee/Flying squad committee/Disciplinary Committee for smooth conducting of examinations 13. Results committee consisting of University Nominee 14. Semester End Examination Question paper is set by External Examiner
Research and Development	1. Providing incentives for publishing research papers in referred journals with impact factor. 2. Providing financial Assistance, incentives and Academic Leaves to faculty for presenting and publishing Research papers in National/International Conferences/Seminars 3. Provided antiplagiarism software for quality of research publications. 4. Sanctioning Academic leave for Research Work 5. Special Interest Groups are established to carryout focused research in Emerging domains 6. Organized Extension Lectures in specific domains 7. Recognizing inspirational thinking of the students by awarding best student projects every year 8. Providing incentives to faculty for sanction of projects from external funding agencies. 9. Getting recognition for department research centers from Parent University. 10. Additional increments for acquiring PhD 11. Providing seed money and In house funding for Research activities. 12. Deputation of faculty to participate in workshops, seminars 13. Financial Support for patent filing 14. Continuous upgradation of labs with the latest equipment and software to meet research needs 15. Collaboration with foreign Universities for Research activities 16. Financial support is given to the students for executing Industry standard projects 17. Expert lecture from industry personnel to get exposure on current research

Finance and Accounts	1. Fully computerized office and accounts section. 2. Regular exercises of PFMS portal to upload expenditure related to Govt. fund. 3. Maintenance the college accounts through Tally.
Student Admission and Support	1. Student Portal (Student Corner) developed, it has all the information about the student. 2. Students online attendance 3. Online student feedback on faculty, facilities and TLP. 4. Online Student Assessment 5. Online admission including online payment gateway (ecap software). 6. Online submission of assignments, Instructional Materials, videos through Byndr. 7. NPTEL Videos for content delivery and certification 8. Implemented online CBCS semester information system for all the Courses. 9. Online degree verification through college portal for employers

6.3 - Faculty Empowerment Strategies

6.3.1 - Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. Sai satyanarayana reddy	IEEE Conference on Nanotechnology	IEEE	100000
2019	Dr. D. Raman	DST Project Presentation, Delhi	DST	4314
2019	Dr. D. Raman	DST project presentation, nagpur	DST	4243
2019	Dr. T Raghunadha Reddy	ICDECT	springer	4000
2019	Dr. LaluNaik	ICDECT	springer	4000
2019	Dr.B.Subbaratnam	ICAB2019	IEEE	9500
2019	Mr.D.V Ramana Reddy	ICAB2019	IEEE	9500
2018	Shrawan Kumar	ICICSE2018	IEEE	7000
2018	Para Upendar	ICNTET 2018	IEEE	7000
2018	B. Raja Gopal Reddy	IEEE, 2018 second International Conference on Intelligence Computing and Control Systems	IEEE	5000
2018	Dr. Ashiwini Kumar	Third International Conference on ICT4SD 2018	IEEE	8000
2018	Shrawan Kumar	ICNIET 2018, IEEE Coference	IEEE	7000
2018	Sulakshana Chilukuri	Indian Conference on Antennas ans Propagation	IEEE	4000
2018	Sulakshana Chilukuri	Indian Conference on Antennas ans Propagation	IEEE	4000
2018	Eliyaz Mahammad	IEEE International Conference on System, Computation, Automation Networking 2018	IEEE	6000
2018	Dr.P.Satkhi jana	WESPAC2018	IEEE	7000
2018	Dr. M Vishnu Vardhan	ICMPC 2018	springer	8000
2019	Lavanya Maddiseti	15th International Soc Design Conference	IEEE	8000
2019	Dr. Ashiwini Kumar	8th International Conference on Advance Computing	IEEE	6000
2019	Dr. P. Nageswara Rao/Mrs.E.R.Aruna	Innovative strategies to HEI's challenges in line with Revised Accreditation Framework	IEEE	5000
2019	Dr. A.Rajinikanth	Aicte Mega darshan, delhi	IEEE	5189
2019	Dr. A.Rajinikanth	Behrin Smart city symposium, behrin	IEEE	24796
2019	Dr.M.A. Jabbar	Behrin Smart city symposium, behrin	IEEE	24796

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6.3.2 - Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	LabVIEW Platform Core1, Core2 myDAQ	LabVIEW Platform Core1, Core2 myDAQ	04/02/2019	14/02/2019	16	1
2019	Are your ready for industry is industry ready for you	Are your ready for industry is industry ready for you	04/02/2019	04/02/2019	50	2
2019	Concrete Careers in Civil Engineering Profession	Concrete Careers in Civil Engineering Profession	22/02/2019	23/02/2019	20	4
2019	Intelligent Internet of Things	Intelligent Internet of Things	19/03/2019	19/03/2019	15	2
2018	CLAD Certification Training in Virtual Instrumentation myRIO	CLAD Certification Training in Virtual Instrumentation myRIO	09/07/2018	13/07/2018	5	1
2018	Workshop on High Frequency Structure Simulator (HFSS)	Workshop on High Frequency Structure Simulator (HFSS)	24/07/2018	26/07/2018	5	1
2018	MATLAB Programming Techniques	MATLAB Programming Techniques	08/11/2018	14/11/2018	8	1
2018	CLAD Refreshment Course in Virtual Instrumentation	CLAD Refreshment Course in Virtual Instrumentation	03/12/2018	08/12/2018	5	1
2019	Two Days work Shop on Technical Manu script preparation with LATEX	Two Days work Shop on Technical Manu script preparation with LATEX	12/03/2019	13/03/2019	20	15
2019	Product Design Engineering Using Fusion 360	Product Design Engineering Using Fusion 360	24/04/2019	03/05/2019	15	10
2019	AutoCAD, CATIA, ANSYS, CNC Turning and CNC milling	AutoCAD, CATIA, ANSYS, CNC Turning and CNC milling	10/05/2019	15/05/2019	2	11
2018	Raising awareness on consultancy in civil engineering 2018	Raising awareness on consultancy in civil engineering 2018	26/11/2018	01/12/2018	20	4
2018	Artificial Intelligence and Machine Learning	Artificial Intelligence and Machine Learning	17/12/2018	21/12/2018	48	2
2019	Deep Learning and Applications	Deep Learning and Applications	27/05/2019	31/05/2019	23	1
2019	Drives and Controllers for Advanced Energy Efficient Electric /Hybrid Electric Vehicles	Drives and Controllers for Advanced Energy Efficient Electric /Hybrid Electric Vehicles	10/06/2019	15/06/2019	30	2
2019	Scilab Workshop	Scilab Workshop	04/05/2019	04/05/2019	63	8
2019	Bio Inspired Algorithms for Intelligent Signal Processing	Bio Inspired Algorithms for Intelligent Signal Processing	24/04/2019	30/04/2019	54	4
2019	Advanced Communication Technologies	Advanced Communication Technologies	18/04/2019	20/04/2019	50	3
2019	Programming Essentials of Python	Programming Essentials of Python	25/02/2019	02/03/2019	19	2
2019	Development of an IOT Environment using ARDUINO	Development of an IOT Environment using ARDUINO	11/02/2019	16/02/2019	18	1
2019	The next Gen cloud" Vardhaman college of engineering	The next Gen cloud" Vardhaman college of engineering	11/03/2019	15/03/2019	6	1
2019	Cyber Operations	Cyber Operations	28/01/2019	02/02/2019	5	1

6.3.3 - No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration

International Conference on Research Advancements in Applied Engineering Sciences, Computer and Communication Technologies	1	12/07/2018	13/07/2018	2
Faculty Development for Students Induction, IARE,Hyderabad	3	16/07/2018	22/07/2019	6
Artificial Intelligence and Machine Learning (Organized by Electronics and ICT Academy)	48	17/12/2018	21/12/2018	5
Next Gen Cloud	6	11/03/2019	15/03/2019	5
Designing Learner Centric MOOC (online activity organized by IITB)	4	02/08/2018	06/09/2018	35
Deep Learning for Engineering Applications	3	25/02/2019	26/02/2019	2
FDP Data Science Technologies and Next Generation Artificial Intellgence	7	03/01/2019	08/01/2019	6
Creating Effective Teaching Learning Environment	1	04/02/2019	09/02/2019	7
Industry Best Practices and Principals	2	29/05/2019	31/05/2019	3
Machine Learning Techniques for Image Processing and Computer Vision	1	06/05/2019	11/05/2019	6
Python Programming	1	13/04/2019	17/04/2019	5
Teaching Techniques	1	11/02/2019	12/02/2019	2
UGC-sponsored short term course(JNTUH) on " Materials Science and Applications"	2	27/05/2019	01/06/2019	6
Recent Innovations in Cognitive Radio and Software Defined Radio	2	29/12/2018	29/12/2018	1
AI and Machine Learning	13	17/12/2018	21/12/2018	5
InCAP2018	1	16/12/2018	19/12/2018	4
Machine Learning in Speech Processing	3	01/12/2018	06/12/2019	6
75 Students Satellite Mission 2022	2	28/11/2018	29/11/2018	2
Analog IC Design Concept to reality	1	31/08/2018	01/09/2018	2
Real Time Operating System	1	13/08/2018	14/08/2018	2
IITBX	2	02/08/2018	06/08/2018	5
ICMAE2018	1	10/07/2018	13/07/2018	4
IUCEE Leadership Summit 2018	1	19/07/2018	21/07/2018	3
Manufacturing Guidelines for Product Design	2	27/02/2019	26/04/2019	48
Basics of Element Analysis -I	1	27/02/2019	26/04/2019	48
Introduction to Research	1	27/02/2019	26/04/2019	48
Inspection and Quality in Manufacturing	1	27/02/2019	26/04/2019	48
Introduction to Composites	2	31/01/2019	30/04/2019	96
Advances in Additives and Digital Manufacturing	1	25/04/2019	29/04/2019	5
Designing Learner Centric MOOC	1	02/08/2018	06/10/2018	56
Law of Thermodynamics	1	25/08/2018	24/09/2018	26
Theory of Rectangle Plates	1	25/08/2018	24/09/2018	26
Advanced Composites	1	25/07/2018	24/10/2018	78
Heat Exchangers	1	25/07/2018	24/10/2018	78
Development and Application of Nano composite Materials	5	09/07/2018	14/07/2018	6
FDP on Bio inspired materials by design issues and challenges	1	19/11/2018	21/11/2018	3
Training program on Remote sensing and GIS	1	18/03/2019	19/03/2019	2
FDP on Artificial Intelligence and Machine Learning	1	29/04/2019	04/05/2019	5

GAIN course on Crop water use estimate in 21st century with advances in geospatial techniques	1	22/04/2019	05/05/2019	10
Moocs course on Fundamentals of Agricultural Extension	1	23/04/2019	25/06/2019	64
3rd ICRRISH2018 (Paper Titled The Implications of Differentiated Instruction in an ESL Classroom), Osmania University	1	04/11/2018	04/11/2018	1
International Workshop on modeling Dynamics, Statistical Inference Prediction of Infectious Diseases2018	1	12/08/2018	15/08/2018	4
Integration of Renewable Energy Resources	1	03/06/2019	08/06/2019	6
3 Days Workshop on IUCEE EPICS	1	03/06/2019	05/06/2019	3
Research Methodology	5	01/02/2019	01/02/2019	1
ICTIEE 2019	24	05/01/2019	08/01/2019	4
STTP on "Mathematical Modeling Numerical Techniques in Engineering and Science", NIT Warangal	1	09/10/2018	13/10/2018	5
A SixDay Intensive FDP on Computational Research Techniques using MATLAB (CRT 2018), NIT Warangal	1	09/07/2018	14/07/2018	6
Multivariate Analysis using SPSS and AMOS	1	09/04/2019	15/04/2019	6
Technical Manuscript Preparation using LATEX	20	12/03/2019	13/03/2019	2
Global IPD1(Instructor Professional Development)	1	17/09/2018	21/09/2018	5
Global IPD2(Instructor Professional Development)	1	25/02/2019	01/03/2019	5
Cyber Operations	5	28/01/2019	02/02/2019	5
FDP and Internship at EPAM	1	29/04/2019	31/05/2019	35
Artificial Intelligence using Machine Learning and Deep Learning	1	07/01/2019	11/01/2019	5
Machine Learning and Deep Learning for Information Retrieval	1	12/06/2019	14/06/2019	3
IOT using Python	1	02/07/2019	06/07/2019	5
Nano scale devices and circuits	1	17/06/2019	22/06/2019	6
ASIC/FPGA Design Its Applications	1	22/04/2019	27/04/2019	6
ICEAT	1	09/04/2019	10/04/2019	2
Microchip Academy RTC Instructor Training	2	01/04/2019	06/04/2019	6
Electromagnetics, Microwave, RF Antenna Design using ANSYS HFSS Tool flow	2	25/03/2019	29/03/2019	5
Engineering Education Research	1	07/01/2019	07/01/2019	1
ICCET2019	1	09/03/2019	10/03/2019	2
MOSAK India 2019	2	25/02/2019	27/02/2019	3
Digital Signal Processors, Embedded System Design and IOT	6	11/02/2019	15/02/2019	5
IndoIsrael SpaceTech Leadership Programme.	1	11/02/2019	14/02/2019	4
Factors influencing teaching and learning environment1	1	04/02/2019	09/02/2019	6
Deep Learning and Applications	23	27/05/2019	31/05/2019	5
Drives and Controllers for Advanced Energy Efficient Electric /Hybrid Electric Vehicles	26	10/06/2019	15/06/2019	6
Strategies and ICT Tools for Power conversion Technologies and Applications(PCTA)	3	01/05/2019	06/05/2019	6
BIO Inspired Algorithms for Intelligent signal processing	29	24/04/2019	30/04/2019	6
Reference Management and Knowledge Organization for Journal Writing	3	10/12/2018	14/12/2018	5
CITAES_2018	1	30/11/2018	01/12/2018	3
Faculty Development Programme for Students Induction,AICTE	3	09/05/2019	11/05/2019	3

2nd International Conference on Recent Innovations in Science, Engineering Technology (ICRISET19)	2	18/07/2019	19/07/2019	2
ICETE	1	22/03/2019	23/03/2019	2
Women Conclave	1	22/03/2019	22/03/2019	1
Advances in Wireless Communications: Challenges Solutions	1	11/03/2019	17/03/2019	6
International Conference on Transliteration and Translation of Inscriptions of Ancient Nepal, BITS PILANI, K.K. BIRLA GOA CAMPUS.	1	31/01/2019	02/02/2019	3
National Conference on Recent Advances and Applications in Mathematics NCRAAM2019	7	26/02/2019	27/02/2019	2
PMMNMTT sponsored 2nd Orientation Programme (Faculty Induction Programme) conducted y Mahatma Gandhi National Council of Rural Education, Dept.of Higher Education, Govt. of India	1	03/12/2018	31/12/2018	29
PMMNMTT sponsored 1st Orientation Programme (Faculty Induction Programme) conducted y Mahatma Gandhi National Council of Rural Education, Dept.of Higher Education, Govt. of India	1	01/11/2018	30/11/2018	30
6th IEEE Intenational Conference on MOOCs Innovation and Technology in Education (Paper Titled Project Based Learning through MOOCs), MLRIT, Hyd	1	29/11/2018	30/11/2018	2
Teaching and Learning in Engineering	1	04/02/2019	01/03/2019	3
Advance Power Electronics and Control	2	01/01/2019	01/03/2019	7
Electrical Vehicles I	2	01/02/2019	01/03/2019	3
Advanced Linear Continuous control systems applications with MATLAB and Simulink	2	01/08/2018	31/10/2018	7
Non Conversational Energy Resources	1	01/07/2018	31/10/2019	7
Introduction to Smart Grid	3	01/08/2018	30/09/2018	7
Resent Advances in Transmission Insulators	1	01/08/2018	30/09/2018	3
Automatic Control	1	01/01/2019	31/03/2019	7
Designe of Experiments using taguchi approach	5	12/11/2018	17/11/2018	6
Fundamentals of 3D Visualization	5	29/08/2018	07/10/2018	12
Scilab Workshop	27	04/05/2019	04/05/2019	1
Advanced Communication Technologies	10	18/04/2019	20/04/2019	3
Programming Essentials of Python	19	25/02/2019	02/03/2019	6
Development of an IOT Environment using ARDUINO	18	11/02/2019	16/02/2019	6
LabVIEW Platform Core1, Core2 myDAQ	16	04/02/2019	14/02/2019	10
Are you ready for industry is industry ready for you	40	04/02/2019	04/02/2019	1
CLAD Certification Training in Virtual Instrumentation myRIO	5	09/07/2018	13/07/2018	5
Workshop on High Frequency Structure Simulator (HFSS)	5	24/07/2019	26/07/2019	3
MATLAB Programming Techniques	8	08/11/2018	14/11/2018	7
CLAD Refreshment Course in Virtual Instrumentation	5	03/12/2018	08/12/2018	6
Intelligent Internet of Things	15	19/03/2019	19/03/2019	1
International Conference on Research Trends in Engineering, Applied Science and Management (Paper Titled Writing as an Idiosyncratic Cognitive Process), Osmania University	1	05/08/2018	05/08/2018	1
International Conference on Research Advancements in Applied Engineering Sciences, Computer and Communication Technologies	1	12/07/2018	13/07/2018	2
Faculty Development for Students Induction, IARE, Hyderabad	3	16/07/2018	22/07/2019	6
Artificial Intelligence and Machine Learning (Organized by Electronics and ICT Academy)	48	17/12/2018	21/12/2018	5

6.5.1 - Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO (EUROGLOBAL Certifications, (UK) Ltd)	Yes	IQAC
Administrative	Yes	ISO (EUROGLOBAL Certifications, (UK) Ltd)	Yes	IQAC

6.5.2 - Activities and support from the Parent - Teacher Association (at least three)

1. Parents are invited to meet the course instructors in order to know their ward's performance 2. Parents can also meet the mentors/HODs to know the allround performance of their ward 3. Every year a meeting between Parent and Teacher would be held which facilitates discussion of student progress like academic progress and performance in examinations, etc. 4. Further the Parent Teacher meeting paves way for suggestions to improve the performance of student

6.5.3 - Development programmes for support staff (at least three)

1. Two Days work Shop on Technical Manu script preparation with LATEX 2. Workshop on Lab view conducted from 422019 to 1422019 3. Workshop on Matlab and Multisim conducted from 1062019 to 1562019 4. Workshop on communication skills conducted from 1062019 to 1562019 5. Training programme labs -CNC Milling ,CNC Turning 6. Training programmes -software AUTO CAD ,CATIA ,ANSYS

6.5.4 - Post Accreditation initiative(s) (mention at least three)

1. Social Innovation and Engineering Exploration courses introduced in the curriculum to inculcate societal consciousness among the students. 2. 5 UG programs accredited by NBA under TierI format 3. Vardhaman has signed MOU with Purdue University to execute IEEE EPICS (Engineering Projects in Community Services) 4. Vhub to motivate the students to come up with new Ideas through startups.

6.5.5 - Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 - Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Academic Writing Skills for Research Journals Articles	11/08/2018	11/08/2018	11/08/2018	110
2019	HUMAN – ROBOT INTERACTIONS FOR ENHANCED PERCEPTION AND SOCIAL WELL BEING	28/02/2019	28/02/2019	28/02/2019	50
2018	Outcome Based Education	04/12/2018	04/12/2018	04/12/2018	100
2018	One Day Workshop on Scopus Database Usage	07/09/2018	07/09/2018	07/09/2018	120
2018	Semester Toppers Certificate Presentation	26/10/2018	26/10/2018	26/10/2018	62
2019	Training Program for Technical Staff	10/06/2019	10/06/2019	15/06/2019	40
2019	A Talk on How to Publish Paper in Reputed Journals and Conferences	08/02/2019	08/02/2019	08/02/2019	120
2019	A Talk on How to Publish a Technical Paper in SCI Journals	27/04/2019	27/04/2019	27/04/2019	120

CRITERION VII - INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants

					agriculture		
2018	1	1	01/07/2018	90	Plantation at various Villages, either side of the government roads, schools	Increasing the Forest Area	232
2018	1	1	03/09/2018	30	Create awareness amongst the Grama Panchyaths	Training how to do segregation of garbage	45
2018	1	1	04/04/2018	180	Empower the farming products, Value Added Products on Quniova	Rural Women Training	35
2018	1	1	01/04/2018	180	Skill Upgradation of Unemployed Youth	Computer Literacy Training under Skill Development Programs	23
2019	1	1	20/02/2019	7	Innocence towards the government schemes.	Basic Tailoring Classes under Rural Woman Training Program	46

7.1.5 - Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Student hand book	06/06/2019	A student hand book is distribute to all the students which contain the details like Infrastructure Facilities, Programs Offered, Choice Based Credit System, Academic Requirements, Award of Degree and Class, Placement and Training Details, Anti Ragging Act, Mentor Details, Transportation Facility, Academic Calendar, Student Corner, Class Teacher Details etc.,
Manual for students	01/06/2019	Academic Regulations of a particular batch will be made available in the college website which includes Promotion Rules, Course Structure, Calculation of CGPA, Award of Class etc.,
Code of conduct students	01/01/2018	CODE OF CONDUCT FOR STUDENTS 1. Each student shall conduct himself in a manner befitting his association with VCE. 2. He is expected not to indulge in any activity, which is likely to bring disrepute to the college. 3. He should show due respect and courtesy to the teachers, administrators, officers and employees of the college and maintain cordial relationships with fellow students. 4. Lack of courtesy, decorum, indecorous behaviour or untoward attitude both inside and outside the college premises is strictly prohibited. Willful damage or discard of Institute's property or the belongings of fellow students are not at all accepted. Creating disturbance in studies or adopting any unfair means during the examinations or breach of rules and regulations of the Institute or any such undesirable means and activities shall constitute violation of code of conduct for the student. 5. Ragging in any form is strictly prohibited and is considered a serious and punishable offence as per law. It will lead to the expulsion of the offender from the college. 6. Violation of code of conduct shall invite disciplinary action which may include punishment such as reprimand, disciplinary probation, debarring from the examination, withdrawal of placement services, withholding of grades/Degrees, cancellation of registration, etc., and even expulsion from the college. 7. Principal, based on the reports of the warden of Institute hostel, can reprimand, impose fine or take any other suitable measures against an inmate who violates either the code of conduct or rules and regulations pertaining to college hostel. 8. A student may be denied the award of Degree/certificate even though he has satisfactorily completed all the academic requirements if the student is found guilty of offences warranting such an action. 9. Attendance is not given to the student during the suspension period.
Code of conduct for faculty	01/01/2018	a. Every employee shall be governed by these rules and is liable for consequences in the event of any breach of rules by him/her. b. Every employee shall at all times, maintain integrity, be devoted to his duty and be honest and impartial in his/her official dealings. An employee shall, at all times be courteous and polite in his/her dealings with the Management, with other members of staff, students and with members of the public. He shall exhibit utmost loyalty and shall, always act in the interests of the College. Details are Available in the Faculty Portal

7.1.6 - Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
self Management	25/07/2018	25/07/2019	815

How to unwind and reduce complexities through Heartfulness Rejuvenation Technique	23/07/2018	23/07/2018	825
Art of Winning	23/07/2018	23/07/2018	800
Self motivation and self excellence through Biographies	23/07/2018	23/07/2018	820
10 tips to become a successful Engineer	13/08/2018	13/08/2018	700
Life transformation	14/08/2018	14/08/2018	710
How to improve Human relations	16/08/2018	16/08/2018	750
7 features of success	17/08/2018	17/08/2018	805
Personality development and softskills	25/07/2018	25/07/2018	800
Leadership Qualities and stress management	25/07/2018	25/07/2018	820
Patriotism and youth for Nation building	20/07/2018	20/07/2018	750
Human values and Relationships	20/07/2018	20/07/2018	900
Overall well being through Heartfulness and meditation	21/07/2018	21/07/2018	820
Attitude is Everything	21/07/2018	21/07/2018	850
SHE Team Awareness Programme on Social Issues	05/10/2018	05/10/2018	2000
Shantivanam trip	24/07/2018	24/07/2018	900
Understanding the real meaning of yoga. Basic yoga exercises	20/07/2018	20/07/2018	900
Engineers Day	28/09/2018	28/09/2018	200
SCIENCE SPIRITUALITY	21/07/2018	21/07/2018	900

7.1.7 - Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Use of Solar energy in the campus to meet the requirements of 25 of the total usage 2. Rain water harvesting 3. Tree plantation in the campus 4. Waste management initiatives in: a) Production of gas from Vegetables b) Producing fuel from plastic 5. Recycling of water 6. Biogas plant

7.2 - Best Practices

7.2.1 - Describe at least two institutional best practices

Best Practice 1: Inculcating social responsibility among the students through innovative projects such as Social Innovation and Engineering Exploration Objectives : To build social responsibility among the students through innovative and useful projects through Engineering Knowledge. IEEE in EPICS and Purdue University USA which targeted to bring the concept of EPICS into curriculum these two courses have helped a lot. Social Innovation made the students to go closer to the society and understand the problems in it and made students to think of some viable solution and Engineering Exploration is exposed to the students to technology and made understand and follow a Human Centered Design (HCD). **Best Practice - 2:**

1. Title of the Best Practice: Initiative towards developing entrepreneurship through Centre for Innovation and Entrepreneurship (CIE) 2. Goal Center for innovation and entrepreneurship (CIE) is dedicated to promote and support the spirit of entrepreneurship among the graduated and graduating students of Vardhaman. 3. Objectives • To act as an institutional mechanism for providing various services including information to budding student entrepreneurs. • To foster better linkages between the Institution, Industries and RD institutions in the region and other related organizations engaged in promoting Small Medium Enterprises (SMEs) including NGOs and other Voluntary Organizations. • To catalyze and promote development of technology Enterprises and promote employment opportunities. • To respond effectively to the emerging challenges and opportunities both at national and international level relating to SMEs and Micro Enterprises.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://vardhaman.org/wp-content/uploads/2019/09/7.2.1-Best-Practices.pdf>

7.3 - Institutional Distinctiveness

7.3.1 - Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

Vardhaman College of Engineering has a clear Vision statement: To be a pioneer institute and leader in engineering education to address societal

needs through education and practice. We have always aspired to be distinctive using a variety of aspects such as interdisciplinary research, motivating startups, inovative teaching pedagogy, valuebased education, empowering society through introducing projects and motivating entrepreneurship. Interdisciplinary Research Designing curriculum in a way to introduce and train students through interdisciplinarity is an approach practiced in Vardhaman College of Engineering. This type of study allows the student to learn by making connections between ideas and concepts across different disciplinary boundaries. Students learning in this way are able to apply the knowledge gained in one discipline to another different discipline as a way to deepen the learning experience. The most effective approach to interdisciplinary study enables students to build their own interdisciplinary pathway between the courses offered in their respective semesters. A carefully facilitated induction programme in the first year ensures that students are educated on the benefits of interdisciplinary studies in the first year itself. Motivating Startups Following the footsteps of the policy drafted by the AICTE, Vardhaman College of Engineering has a policy of promoting StartUps in its academic environment. Students are introduced to this policy through the First Year Induction programmes. Startup Policies play a vital role in the economic and social development of a nation. In developing economies, these policies extend support to entrepreneurs and startups in overcoming the numerous barriers while trying to promote their startups. Vardhaman College of Engineering strongly believes that technical education institutes play an imperative role in shaping the Start up movement of a nation. We also have college students who have taken their business ideas to the next level and started out on their own as entrepreneurs. We have fully supported them in their journey and on the way both have gained from it. These startups have mentored and supported the campus companies and done honorary related work for Vardhaman StartUp community as well. Innovative Teaching Pedagogy Vardhaman College of Engineering has adopted innovative teaching pedagogy using Smart Classrooms to help teachers in delivering the concept better, and produce more meaningful learning experiences by using audio/visual aids from various sources. 1. Group Classroom Experiments, 2. Role Plays, 3. Projects and Models, 4. Context rich problems, 5. Interactive Lectures, 6. Questioning, 7. Comprehensive and Continuous Assessment Societal Consciousness Social awareness and consciousness serve as a precursor to social movement. Educational institutions build moral essence and ethical values to produce socially desirable behaviour, personality and character which promote innovation, peace, equal opportunities and justification among individuals, society and nation. Motivating Entrepreneurship Vardhaman College of Engineering considers entrepreneurship education very important to the educated youth. Taking in to consideration the decreasing number of opportunities and the increasing number of skilled youth, VCE strives to produce the best to the entrepreneurial world.

Provide the weblink of the institution

https://vardhaman.org/wp-content/uploads/2019/09/7.3.1_Institutional-Distinctiveness-of-VCE.pdf

8.Future Plans of Actions for Next Academic Year

1. To apply for NAAC for cycle -II 2. To apply for NBA for all PG programs 3. To participate NIRF ranking 4. To apply for NBA under Tier -I for B tech (Civil Engineering) 5. To apply for extension of UGC autonomous status 6. To Encourage the faculty to file good number of patents 7. To Establish a center for Foreign Languages 8. To Implement Digital Evaluation 9. To conduct Academic and Administrate Audit 10. To Training program for NonTeaching Staff 11. To Organize Career Guidance Programs on Higher Education Opportunities in Abroad 12. To conduct Induction Program for newly joined faculty