



## **VARDHAMAN COLLEGE OF ENGINEERING** (AUTONOMOUS)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC with A++ Grade, ISO 9001:2015 Certified  
Kacharam, Shamshabad, Hyderabad - 501218, Telangana, India

19-03-2022

### **Extract of 11<sup>th</sup> Governing Body Proceedings**

The Governing Body, at its meeting number 11, held on 09<sup>th</sup> April 2016 considered the item (5) and approved the five year strategic plan (2016-2020).

5. The governing body has approved the five year strategic plan (2016-2020).

#### **Strategic Plan:**

##### **A. Institutional Holistic Development:**

- To become one among the top engineering colleges of the country.
- To attract better input of students of below 1000 rank in state level entrance test (EAMCET).
- To get the institute accredited by NBA under Tier-I.
- To get UGC CPE status.

##### **B. Infrastructure Development:**

- To establish centre of excellences in each department on par with the industry standards.
- To upgrade the existing laboratory facilities as per the latest technology.
- To establish patent cell and incubation centre.
- To establish maker space to facilitate fabricating prototypes on campus.
- To construct an auditorium with the state-of-the-art audio visual facility accommodating 1500 audience at a time.
- To make all laboratories and faculty rooms centrally air conditioned.
- To equip all the class rooms and laboratories with LCD projectors.
- To upgrade the existing internet band width from 100Mbps to 1Gbps.
- To provide infrastructure for self learning facilities through MOOCS.
- To construct an indoor stadium for indoor games.
- To establish gymnasium for hostel students.

##### **C. Strengthening Faculty:**

- To ensure academic and research ambience on the campus 50% of the faculty with Ph. D qualification.
- To get the faculty updated with the current technological changes of the industry, faculty are to be encouraged to attend at least one Faculty Development Program per semester by each faculty.
- To motivate the faculty towards self learning and continual education faculty are to be advised to undergo at least one certification program per semester.
- To encourage faculty to publish their research work in peer reviews journals and conferences, and to give incentives for quality publications.
- To encourage faculty to attend academic activities like presenting papers in conferences, attending FDPs, training programs, attending PhD course work etc. by providing leave on duty.

##### **D. Research & Development:**

- To apply for the grant of Recognized Research Centre by the university.
- To get sponsored projects for at least 20% of the faculty for an amount of 20 crores.
- To Create an Engineering consultancy centre, catering the technical consultancy need

of other Institutes.

- To initiate collaborative research with other organizations of repute.
- To develop in house R&D by facilitating required infrastructure and financial support.
- To get at least 50 patents to be filed by 2020 and to ensure at least 10% of the filed patent to get granted.
- To create infrastructure for facilitating the faculty to undertake consultancy work.
- Enhance MOU with premier Indian Technological Institutes and foreign Universities and Research Organizations.

**E. Student Career Development Cell:**

- To establish Separate SDC Cell
- To encourage students to go for Internships
- To get 100% of the eligible students placed
- Strengthening Placement Cell
- To Strengthen Entrepreneurship Development Cell
- To offer GATE Coaching on campus
- To establish Centre for Foreign Languages
- To offer Certification Programs by the industry

**F. Academic Excellence:**

- To Improve the teaching / learning environment
- To implement outcome based education in toto.
- To implement choice based credit system.
- To introduce Open Electives.
- To encourage the students to undergo online certification courses like NPTEL.
- Promote and support institution readiness to adopt present and future technological development.

**G. Examination Reforms:**

- To introduce digital evaluation.

*Ravindra*

**Dr. JVR Ravindra**  
**Principal**  
**Member Secretary**



PRINCIPAL  
VARDHAMAN COLLEGE OF ENGINEERING  
Shamshabad, Hyderabad.





# **VARDHAMAN COLLEGE OF ENGINEERING**

**(AUTONOMOUS)**

Shamshabad– 501 218, Hyderabad

## **STRATEGIC PLAN 2016-2020**

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#### 5. Student Career Development Cell:

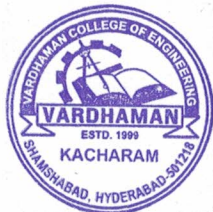
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#### 6. Academic Excellence:

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- To implement outcome based education in toto.
- To implement choice based credit system.
- To introduce Open Electives.
- To encourage the students to undergo online certification courses like NPTEL.
- Promote and support institution readiness to adopt present and future technological development.

#### 7. Examination Reforms:

- To introduce digital evaluation.
- To train the faculty to set the question papers as per the Blooms level.



  
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## IMPLEMENTATION OF STRATEGIC PLAN 2016-2020

SNo.	Key Targets Set	Implementation Status																																								
1.	<b>Institutional Holistic Development:</b> <ul style="list-style-type: none"><li>To become one among the top engineering colleges of the country.</li><li>To attract better input of students of below 1000 rank in state level entrance test (EAMCET).</li><li>To get the institute accredited by NBA under Tier-I and reaccredited by NAAC.</li><li>To get UGC CPE status.</li></ul>	<ul style="list-style-type: none"><li>Vardhaman is accorded Autonomous Status by UGC for a period of 10 Years, from 2020-2021 to 2030-2031.</li></ul> <b>Rankings:</b> <ul style="list-style-type: none"><li>Vardhaman College of Engineering is consistently ranked by different ranking agencies.</li></ul> <b>a) NIRF Ranking of MHRD:</b> <table><tr><th>Year</th><th>Category</th><th>Rank</th></tr><tr><td rowspan="2">2021</td><td>Engineering</td><td>141</td></tr><tr><td>Overall</td><td>151-200 Band</td></tr><tr><td rowspan="2">2020</td><td>Engineering</td><td>143</td></tr><tr><td>Overall</td><td>151-200 Band</td></tr><tr><td>2019</td><td>Engineering</td><td>152</td></tr><tr><td>2018</td><td>Engineering</td><td>151-200 Band</td></tr><tr><td>2017</td><td>Engineering</td><td>151-200 Band</td></tr></table> <b>b) Vardhaman is ISO 9001:2015 Certified</b> <b>c) Vardhaman College of Engineering is Registered and Recognized as Scientific Industrial Research Organization (SIRO) by DSIR</b> <b>d) ARIIA</b> <table><tr><th>Year</th><th>Rank</th></tr><tr><td>2021</td><td>Band "Excellent" Category</td></tr><tr><td>2020</td><td>Band B "Rank Between 26<sup>th</sup> to 50<sup>th</sup>"</td></tr></table> <b>e) Institution's Innovation Council (IIC) is established at Vardhaman College of Engineering to undertake IIC activities to promote Innovation and Start-up in campus</b> <b>f) Careers360</b> <table><tr><th>Year</th><th>Category</th><th>Grade</th></tr><tr><td>2021</td><td rowspan="4">Engineering Colleges</td><td>AAAA</td></tr><tr><td>2020</td><td>AAA+</td></tr><tr><td>2019</td><td>AAA+</td></tr><tr><td>2018</td><td>AAA+</td></tr></table>	Year	Category	Rank	2021	Engineering	141	Overall	151-200 Band	2020	Engineering	143	Overall	151-200 Band	2019	Engineering	152	2018	Engineering	151-200 Band	2017	Engineering	151-200 Band	Year	Rank	2021	Band "Excellent" Category	2020	Band B "Rank Between 26 <sup>th</sup> to 50 <sup>th</sup> "	Year	Category	Grade	2021	Engineering Colleges	AAAA	2020	AAA+	2019	AAA+	2018	AAA+
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		2017		AAA+
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		<b>g) Times India:</b>		
		<b>Year</b>	<b>Category</b>	<b>Grade</b>
		2021	Top 175 Engineering Institute Rankings 2021 Overall Rankings	28 <sup>th</sup> Rank
		2020	Top Engineering Institutes in India	31 <sup>st</sup> Rank
		2019	Top Private Engineering Institutes in India	35 <sup>th</sup> Rank
			Top Engineering Institutes in India	46 <sup>th</sup> Rank
			Top Private Engineering Institutes in Telangana	4 <sup>th</sup> Rank
			Top Private Engineering Institutes in Telangana - Placements	4 <sup>th</sup> Rank
			Top Private Engineering Institutes in Telangana - Research	1 <sup>st</sup> Rank
			Top Private Engineering Institutes in Telangana - Infrastructure	1 <sup>st</sup> Rank
		2018	Top Engineering Institutes in India	71
		<ul style="list-style-type: none"> <li>CSR Engineering GHRD ranked Vardhaman in 4<sup>th</sup> Rank (Top Engineering Colleges of Excellence).</li> <li>Digital Learning has Ranked Vardhaman AAA+ in 2018</li> <li>The Week – Hansa has ranked Vardhaman 80<sup>th</sup> Rank in India.</li> <li>CMR Data Quest has ranked Vardhaman 42<sup>nd</sup> rank, Top T_ Schools (Private) 29<sup>th</sup> Rank, Industry interface 7<sup>th</sup> Rank.</li> </ul>		
		<b>Admission Ranks:</b>		
		<ul style="list-style-type: none"> <li>To attract better input of students of below</li> </ul>		

SNo.	Key Targets Set	Implementation Status																								
		<p>1000 rank in state level entrance test (EAMCET).</p> <table><tr><th>Year</th><th>Starting Rank in TS EAMCET</th></tr><tr><td>2020-2021</td><td>1839</td></tr><tr><td>2019-2018</td><td>2736</td></tr><tr><td>2018-2019</td><td>1911</td></tr><tr><td>2017-2018</td><td>3234</td></tr><tr><td>2016-2017</td><td>3621</td></tr></table> <div><p><b>STARTING RANKING TS EAMCET</b></p><table><tr><th>Year</th><th>Rank</th></tr><tr><td>2016-2017</td><td>3621</td></tr><tr><td>2017-2018</td><td>3234</td></tr><tr><td>2018-2019</td><td>1911</td></tr><tr><td>2019-2018</td><td>2736</td></tr><tr><td>2020-2021</td><td>1839</td></tr></table></div> <p><b>Accreditation:</b></p> <ul style="list-style-type: none"><li>5 UG programs accredited by NBA under Tier –I in the month of May 2019 and having validity till June, 2022. One more UG Program also accredited by NBA under Tier-I, validity is still June 2024.</li><li>NAAC accredited Vardhaman with A++ Grade in Cycle-II with CGPA of 3.58 out of 4 Point Scale.</li></ul> <p><b>CPE:</b></p> <ul style="list-style-type: none"><li>UGC has conferred Centre for Potential Excellence status to Vardhaman College of Engineering in the year 2016 with validity up to March, 2021.</li></ul>	Year	Starting Rank in TS EAMCET	2020-2021	1839	2019-2018	2736	2018-2019	1911	2017-2018	3234	2016-2017	3621	Year	Rank	2016-2017	3621	2017-2018	3234	2018-2019	1911	2019-2018	2736	2020-2021	1839
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2.	<p><b>Infrastructure Development:</b></p> <ul style="list-style-type: none"><li>To establish centre of excellences in each department on par with the industry standards.</li><li>To upgrade the existing laboratory facilities as per the latest technology.</li></ul>	<p><b>Centre of Excellences:</b></p> <ul style="list-style-type: none"><li>In pursuance of the strategic plan, Vardhaman has established centre of excellences in ECE, CSE and ME departments.<ul style="list-style-type: none"><li><b>ECE:</b><ul style="list-style-type: none"><li>Centre of Excellence for IoT (Intel)</li><li>Microwave, Antennas and RF Engineering (COEMARE)</li></ul></li></ul></li></ul>																								



SNo.	Key Targets Set	Implementation Status
	<ul style="list-style-type: none"> <li>▪ To establish patent cell and incubation centre.</li> <li>▪ To establish maker space to facilitate fabricating prototypes on campus.</li> <li>▪ To construct an auditorium with the state-of-the-art audio visual facility accommodating 1500 audience at a time.</li> <li>▪ To make all laboratories and faculty rooms centrally air conditioned.</li> <li>▪ To equip all the class rooms and laboratories with LCD projectors.</li> <li>▪ To upgrade the existing Internet band width from 100Mbps to 1Gbps.</li> <li>▪ To provide infrastructure for self-learning facilities through MOOCS.</li> <li>▪ To construct an indoor stadium for indoor games.</li> <li>▪ To establish gymnasium for hostel students.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Signal Processing</li> <li>▪ Virtual Instrumentation (NI LabVIEW Academy)</li> <li>▪ Cadence VLSI Design</li> <li>▪ <b>CSE:</b> <ul style="list-style-type: none"> <li>▪ Centre for Cyber Security</li> <li>▪ Centre for Data Science</li> <li>▪ Centre for Virtualization Cloud Computing</li> <li>▪ Imaging Research Centre</li> <li>▪ Centre for Software Engineering</li> </ul> </li> <li>▪ <b>ME:</b> <ul style="list-style-type: none"> <li>▪ Auto DESK centre of excellence</li> </ul> </li> </ul> <p><b>Infrastructure:</b></p> <ul style="list-style-type: none"> <li>▪ Upgraded Laboratories with latest technology equipment as per the modified curriculum.</li> <li>▪ A patent cell is established from which more than 70 patents are published since inception of the cell.</li> <li>▪ Centre for Innovation and Entrepreneurship (CIE) is established.</li> <li>▪ A new Building with plinth area of 10,000sqft for Maker space is constructed.</li> <li>▪ Auditorium with 1500 seating capacity is built.</li> <li>▪ All laboratories and faculty rooms are air conditioned.</li> <li>▪ All classrooms, Seminars halls, Smart Classrooms, Auditorium, Conference/Board Rooms &amp; Computer Laboratories equipped with LCD projectors and ICT facility.</li> <li>▪ IT facilities has been upgraded via Student Computer Ratio 3:1, Internet band width is increased from 100Mbps to 1Gbps.</li> <li>▪ 14 TB Subject Expert Video lecturers are procured from NPTEL and 32 DTH SWAYAM Prabha channels are subscribed for the digital library.</li> <li>▪ Indoor stadium is constructed with 730 sqm</li> <li>▪ Separate Gymnasiums for hostel girls and boys are provided.</li> <li>▪ New Studio Room is constructed with necessary mixing equipment for lecture capturing system and E-Content Development.</li> <li>▪ There are established systems and procedures for maintaining and utilizing physical, academic and support facilities.</li> </ul>



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3.	<p><b>Strengthening Faculty:</b></p> <ul style="list-style-type: none"> <li>▪ To ensure academic and research ambience on the campus 50% of the faculty with Ph. D qualification.</li> <li>▪ To get the faculty updated with the current technological changes of the industry, faculty are to be encouraged to attend at least one Faculty Development Program per semester by each faculty.</li> <li>▪ To motivate the faculty towards self-learning and continual education faculty are to be advised to undergo at least one certification program per semester.</li> <li>▪ To encourage faculty to publish their research work in peer reviews journals and conferences, and to give incentives for quality publications.</li> <li>▪ To encourage faculty to attend academic activities like presenting papers in conferences, attending FDPs, training programs, attending PhD course work etc. by providing leave on duty.</li> </ul>	<ul style="list-style-type: none"> <li>▪ In pursuance of strengthening the faculty Vardhaman has recruited more number of Ph.Ds. As of now, around 92 faculty with PhD qualification out of 250.</li> <li>▪ Good Number of Faculty attended FDPs.</li> <li>▪ Vardhaman Faculty got 440 and students 1506 SWAYAM NPTEL certifications towards continual education.</li> <li>▪ Total 40 Gold Medals Certifications</li> <li>▪ Total 90 Silver Medals Certifications</li> <li>▪ Total 906 Elite Certifications</li> <li>▪ 30 Faculty certified in AICTE- NPTEL FDP.</li> <li>▪ Incentives/ Processing fee/ Registration fee is being paid for the Faculty towards Research Publications till now around 153 Faculty received the Incentives.</li> <li>▪ Leave on Duty is being granted to the faculty who are pursuing PhD for attending their research review meetings/Pre-PhD exams/Attending conferences etc.</li> <li>▪ Academic Leave is being granted to the faculty who are pursuing PhD for attending their research review meetings/Pre-PhD exams/Attending conferences etc.</li> </ul>
4.	<p><b>Research &amp; Development:</b></p> <ul style="list-style-type: none"> <li>▪ To apply for the grant of Recognized Research Centre by the university.</li> <li>▪ To get sponsored projects for at least 20% of the faculty for an amount of 20 crores.</li> <li>▪ To Create Engineering consultancy centre, catering the technical</li> </ul>	<p><b>Research Centres:</b></p> <ul style="list-style-type: none"> <li>▪ DSIR Certified as Research Institute to Vardhaman College of Engineering of Vardhaman Educational Society, Hyderabad, Telangana and registered with DSIR for the purpose of customs duty &amp; GST exemption from the FY: 2018 – 2024.</li> <li>▪ JNTUH granted research centres for CSE, ECE and MECH departments of Vardhaman college of Engineering from the Academic Year: 2018-2019.</li> <li>▪ Around 10.17 Crores of funded projects have been sanctioned from various funding agencies like DST, AICTE, UGC, DRDO, SERB etc till day and 10% of</li> </ul>

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	<p>consultancy need of other Institutes.</p> <ul style="list-style-type: none"> <li>To initiate collaborativeresearch with other organizations of repute.</li> <li>To develop in house R&amp;D byfacilitating required infrastructure and financial support.</li> <li>To get at least 50 patents tobe filed by 2020 and to ensure at least 10% of the filed patent to get granted.</li> <li>To create infrastructure for facilitating the faculty to undertake consultancy work.</li> <li>Enhance MOU with premierIndian Technological Institutes and foreign Universities and Research Organizations.</li> </ul>	<p>faculty are involved in executing the projects.</p> <ul style="list-style-type: none"> <li>Research facilities are upgraded to advance tools and equipment with the help of AICTE MODROBS scheme with an amount of 32.63 Lakhs.</li> <li>Short term training/Refresher Programs/Faculty Development Programs towards emerging technologies in core domains and entrepreneurship &amp; innovation are organized under various funding schemes like DST, AICTE, ISTE, E&amp;ICT etc. for an amount of 15.89 lakhs.</li> <li>Vardhaman Research Promotion Scheme(VRPS) is introduced for financial assistance of in house faculty to</li> </ul> <p>Improve the R &amp; D culture and observed tremendous participation and funded around Rs 55.76 lakhs.</p> <p><b>Consultancy:</b></p> <ul style="list-style-type: none"> <li>Around 45 consultancy works were taken up by all departments and amounting to Rs.90.00 lakhs.</li> <li>Infrastructure is being enhanced to undertake various Consultancy works at all departments and major consultants are GHMC - Telangana, DRE Motors, Giridhari homes, Tirumala constructions, JECRC University etc.</li> </ul> <p><b>Collaborative Research:</b></p> <ul style="list-style-type: none"> <li>Collaborative Research is initiated with National Importance Universities like IIT, Delhi and Mahindra Ecole University – connected via funded projects for a worth of 4 crores and contemporary participation of Vardhaman is around 56 lakhs only and some more collaborations are in under consideration too.</li> <li>Most of the faculty publishing research articles in collaborating with other universities and observed the improvement in citations and h-index also.</li> <li>07 international Patents &amp; 02 national patents got granted and 59 patents got published till now.</li> </ul> <p><b>MOU:</b></p> <ul style="list-style-type: none"> <li>Vardhaman signed 31 MOUs with various Industries, Universities, Research Organizations for technology transfer and knowledge sharing further 20 are active and various activies are undergoing like certifications, internships, workshops, seminars etc to all faculty and students.</li> </ul>
5.	<p><b>Career DevelopmentCell:</b></p> <ul style="list-style-type: none"> <li>Separate CDC Cell</li> <li>Internships</li> <li>80% of the students eligible to get placed</li> <li>Placement Cell Strengthening</li> <li>Strengthening Centre</li> </ul>	<p><b>CDC:</b></p> <ul style="list-style-type: none"> <li>Career Development Cell is establishedand function to identify and implement skill development programs in advanced technological domain for students.</li> <li>The cell has recruited expert trainers on full time basis to train the students so as to</li> </ul>

SNo.	Key Targets Set	Implementation Status
	<p>for innovation and Entrepreneurship(CIE)</p> <ul style="list-style-type: none"> <li>▪ GATE Coaching</li> <li>▪ Foreign Language Training Certification Programs by the industry</li> </ul>	<p>acquire skills needed by industry.</p> <ul style="list-style-type: none"> <li>▪ The cell starts training students from II Year and training continue IV Year I Semester.</li> <li>▪ Created provision for students to learn on their own at their</li> </ul> <p><b>Internships:</b></p> <ul style="list-style-type: none"> <li>▪ It is made Internship as mandatory as part of curriculum</li> <li>▪ About 900 students are sent for Internships during last five years.</li> <li>▪ As part of Industry Institute Interaction, around 70 faculty are sent for Industry Internships.</li> </ul> <p><b>Placements:</b></p> <ul style="list-style-type: none"> <li>▪ For the last five years more than 85% of eligible students are placed in companies of repute.</li> <li>▪ The average package is increasing by 15% to 25% year on year.</li> <li>▪ The medium salary as increased from 10% to 20%.</li> </ul> <p><b>CIE:</b></p> <ul style="list-style-type: none"> <li>▪ A dedicated Centre for Innovation and Entrepreneurship (CIE) is established in Vardhaman College of Engineering to support student in converting Innovative Ideas into a market ready Start-ups.</li> <li>▪ Vardhaman has adapted National Innovation and Start-up policy 2019 released by Government of India.</li> <li>▪ A dedicated team has formed for establishment and implementation of Institution's Innovation Council (IIC), MHRD, MoE, Government of India.</li> <li>▪ Best in class Technology Business Incubation Center (V - hub) is formed with support and guidance of International Mentors and fellow Incubation Centers to provide co-working space and Launch student Start-ups in Vardhaman Campus.</li> </ul> <p><a href="https://vardhaman.org/achievements-of-cie/">https://vardhaman.org/achievements-of-cie/</a></p> <ul style="list-style-type: none"> <li>▪ In-house GATE coaching is offering in Vardhaman.</li> </ul>



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		<ul style="list-style-type: none"> <li>Several certification programs offered by Industries are conducted for the last five years like Google, UIPath, Oracle, CISCO, ARC, NI, PSCAD, ANSYS, BEC etc.</li> </ul>
6.	<b>Academic Excellence:</b> <ul style="list-style-type: none"> <li>To Improve the teaching/learning environment</li> <li>To implement outcome based education in toto.</li> <li>To introduce choice based credit system.</li> <li>To introduce Open Electives.</li> <li>To encourage the students to undergo online certification courses like NPTEL.</li> <li>Promote and support institution readiness to adopt present and future technological development.</li> </ul>	<ul style="list-style-type: none"> <li>With Academic Autonomy, Curriculum is revised every two to three years as per the Industry requirement.</li> <li>Choice Based Credit system and open electives are introduced in modified curriculum.</li> <li>Course Assessments are being done semester wise and assuring the set attainment levels reached.</li> <li>Outcome based Education is being practiced.</li> <li>Around 2000 students are certified by SWAYAM NPTEL in various advanced courses.</li> <li>Around 1500 students and faculty undergone various certification programs under COURSERA.</li> <li>Regular workshops are conducted for faculty on pedagogical training.</li> </ul>
7.	<b>Examination Reforms:</b> <ul style="list-style-type: none"> <li>To introduce digital evaluation.</li> <li>To train the faculty to set the question papers as per the Blooms level.</li> </ul>	<ul style="list-style-type: none"> <li>Digital Evolution is under consideration as a trail for PG programs.</li> <li>All the question papers are set as per bloom's levels to have a standard and balanced question paper.</li> </ul>