# VARDHAMAN COLLEGE OF ENGINEERING

(AUTONOMOUS)

Affiliated to **JNTUH**, Approved by **AICTE**, Accredited by **NAAC** with **A++** Grade.
**UGC** "College with Potential for Excellence" and **ISO** 9001:2015 Certified
(JNTUH College Code : 88)

## OFFICE OF THE PRINCIPAL

F No.: VCE/ PrincipalOffice/Circular/2022-2023/PEC

19-12-2022

## CIRCULAR

## Planning and Evaluation Committee (PEC)

The Planning and Evaluation Committee (PEC) has been reconstituted with the following members. The reconstituted committee shall start functioning with immediate effect.

| S No. | Name of the Member | Position |
|-------|--------------------|----------|
| 1. | Dr. JVR Ravindra<br>Principal and Professor of ECE | Chairman |
| 2. | Dr. P. Nageswara Rao<br>Dean (Student Mentoring) and Professor of ECE | Convener |
| 3. | Dr. H. Venkateswara Reddy<br>COE and Professor of CSE | Member |
| 4. | Dr. E. R. Aruna<br>Dean (IQAC) and Associate Professor of IT | Member |
| 5. | Dr. S. Rajendar<br>Dean (Academics) and Professor of ECE | Member |
| 6. | Dr. M. A. Jabbar<br>HOD and Professor of CSE(AI&ML) | Member |
| 7. | Mr. Vivek Kulkarni<br>Associate Dean (CDC) and Associate Professor of IT | Member |
| 8. | Dr. GAE Satish Kumar<br>HOD and Professor of ECE | Member |
| 9. | Dr. Md. Asif<br>HOD and Associate Professor of EEE | Member |
| 10. | Dr. Shanthi Makka<br>Professor of CSE | Member |

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VARDHAMAN COLLEGE OF ENGINEERING
Shamshabad, Hyderabad.

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# 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

## MINUTES OF 17<sup>th</sup> MEETING OF PLANNING AND EVALUATION COMMITTEE HELD ON 13-02-2023 AN

Agenda :

Strategic Plan preparation –To review the final Strategic plan

Minutes : The members have reviewed the final draft version of Strategic Plan 2021-26.

The following are the key areas set for the strategic plan.

1. Governance
2. Physical Resources
3. Human Resources
4. Education Processes
5. Research and Innovation
6. Institute Perception

| 1. | Governance | |
|---|---|---|
| | Genesis | Governance is the mechanism and procedure by which an organization organizes itself to meet its Vision. It deals with the systems and processes that helps the organization for easy decision-making, to inculcate accountability among the administrators, create transparency, increase supervision, and implement codes of conduct. It is expressed through legislation, policies and by-laws, and informal norms. The goal of good governance is to build robust organization that achieves the best results. |
| 1.1 | Objective | To create new and/or update Governance models and processes that provide greater autonomy at all levels |
| | Actions | 1. Develop leadership through decentralization. <br> 2. Strengthen various statutory and non-statutory committees and cells for effective functioning. <br> 3. Develop standard operating procedures for all processes and systems at all levels. <br> 4. Initiate quality enhancement strategies at all levels by taking suggestions from all stakeholders. <br> 5. Facilitate easy access to and use of institute services and systems to reduce duplication and complexity. <br> 6. Ensure transparency at all levels to promote good governance. <br> 7. Ensure inclusivity, equity and diversity |
| | Metrics and Targets | 1. Define roles and responsibilities clearly for all administrators <br> 2. Use ERP effectively <br> 3. Collect feedback from all the stakeholders and take corrective measures <br> 4. Continuously Seek accreditation from reputed accrediting agencies such as NBA/NAAC/ ISO/ABET and others continuously. <br> 5. Adequate representation of all stakeholders reflecting diversity in all administrative positions and committees |

| 2. | Physical Resources | |
|---|---|---|
| | Genesis | Physical resources, which include facilities, equipment, land, and other assets improve institutional effectiveness. Physical resource planning is integrated with institutional planning. |
| 2.1 | Objective | To augment infrastructure which facilitates wholesome education for learners. |

| | Actions | 1. Create infrastructure proportionate to increase in intake with effective space utilization and minimal environmental impact.<br>2. Establish state-of-the-art industry supported laboratories to ignite research acumen among learners.<br>3. Transform existing classrooms to smart classrooms meeting the needs of digital natives.<br>4. Ensure seamless internet connectivity throughout the campus.<br>5. Equip library with e-learning and print resources to promote self-learning as well as self-paced learning.<br>6. Augment infrastructural facilities for extra and co-curricular activities for holistic development of learners. |
|---|---|---|
| | Metrics and Targets | 1. Construct green building for increased intake.<br>2. Replace all non LED bulbs with LED bulbs for energy conservation by 2023.<br>3. Increase solar power generation to 200kW by 2024.<br>4. Establish atleast two industry supported laboratories in each department by 2026.<br>5. Upgrade all classrooms to smart classrooms by 2025.<br>6. Enhance Wi-Fi bandwidth by five times with seamless connectivity by 2024.<br>7. Increase book titles in the library to 20,000 by 2025.<br>8. Double e-journal subscriptions by 2026 (IEEE, IET, ACM, ASME, Taylor and Francis, Elsevier and Springer etc.) covering all areas of science, technology, engineering and management.<br>9. Construct five bedded health center with all mandatory facilities by 2023.<br>10. Install automated firefighting facilities in the entire campus by 2026.<br>11. Establish Makerspace by 2023.<br>12. Install hydrogen research lab by 2023.<br>13. Establish idea lab and bring it into full utilization by 2025.<br>14. Provide open gym facility, dance practice room and music room with necessary equipment by 2023.<br>15. Create open lounge for collaborative learning by 2023.<br>16. Create space for dining and cafeteria for a capacity of 500 by 2023.<br>17. Develop an institutional repository with DSpace by 2024.<br>18. Implement RFID system for self-check-in and check-out, issuance and return of the books etc. by 2023.<br>19. Go paperless by end of 2023. |

| 3 | Area | Human Resources |
|---|---|---|
| | Genesis | Development of human resources is essential for any organization that would like to be dynamic and growth-oriented. Unlike other resources, human resources have rather unlimited potential capabilities. The potential can be used only by creating a climate that can continuously identify, bring to surface, nurture and use the capabilities of people |
| 3.1 | Objective | To transform and become an aspirational destination of human resource for industry and society at large. |
| | Actions | 1. Recruit and retain highly competent faculty and staff to produce deployable engineers.<br>2. Maintain ample number of faculty and staff reflecting diversity in all aspects.<br>3. Impart incessant training to faculty and staff based on training need analysis (TNA) to meet competencies laid down by lead societies. |
| | Metrics and Targets | 1. Maintain faculty student ratio 1:15<br>2. Reach the target of 60 % faculty with doctoral degree by 2025.<br>3. Maintain 90% faculty retention.<br>4. Maintain 1:1:1 experience ratio( 0 to 8 Y : 8 to 15 Y : >15 Y)<br>5. Maintain 1:2:6 Faculty cadre ratio (P: Asso. P: Asst.P).<br>6. Ensure to maintain Gender Diversity(50:50) |

|   |   |   |
|---|---|---|
|   |   | 7. Ensure at least 50% of the faculty from the departments undergo training on cutting edge technologies every year. |
|   |   | 8. Recruit at least 10% Faculty under POP (Professor of Practice). |

| 4 | Area | **Education process** |
|---|---|---|
|   | Genesis | Institution, as a seat of learning, exists for providing quality education by creating, advancing, and disseminating knowledge with collective wisdom. It is a premier higher education institution (HEI) engaged in fulfilling educational requirement of diverse sections of the society in the core academic disciplines. It aims at achieving academic excellence through multidisciplinary course curriculum, blended teaching methods and technology enabled joyful learning environment. In addition to acquire subject knowledge and required skills, the students will be groomed to think, perform, and communicate in a critical, creative, and effective manner |
| 4.1 | Objective | To provide holistic and multidisciplinary education which imparts knowledge, skills and attitude in vibrant, congenial, and conducive environment. |
|   | Actions | 1. Strengthen existing academic programmes by enriching course curriculum in the light of global standards, technological advancements, and industry requirements.<br>2. Chalk out scholastic and co-scholastic activities to make the educational environment livelier.<br>3. Transform learning process from traditional pedagogy to heutagogy.<br>4. Develop innovative assessment tools that effectively measure the attainment of graduate attributes. |
|   | Metrics and Targets | 1. Introduce 'Engineering Clinics' in the curriculum to foster multidisciplinary innovations in engineering.<br>2. Provide flexibility in choosing their own paths in their career through CBCS.<br>3. Conduct atleast 50 technical activities through professional societies like IEEE, ACM, ISTE, ASME, ASCE and etc. every year.<br>4. Maintain success rate more than 90% (Percentage of Students graduating in stipulated time).<br>5. Provide placements for all eligible students.<br>6. Prepare the students to pursue higher education and ensure that atleast 30% would succeed in getting admissions every year.<br>7. Ensure atleast 5% of the students would become entrepreneurs every year.<br>8. Zero tolerance for plagiarism and malpractice.<br>9. Develop e-content and deploy in institute student portal for the access by all students.<br>10. Use effectively the edu-tech tools for content delivery and assessment.<br>11. Offer atleast 25% courses through MOOCs enabling self-directed learning. |

| 5 | Area | **Research and Innovation** |
|---|---|---|
|   | Genesis | The Institution is committed to high quality research and innovation. To facilitate research activities, the Institution has developed a well drafted Research Policy to guide, encourage, fund, support and monitor core and interdisciplinary research. Individuals in the Institution are encouraged to achieve and sustain research excellence. |
| 5.1 | Objective | To enhance the quality of research which leads to substantial path-breaking innovations. |
|   | Actions | 1. Build research collaborations with industries and premier institutions.<br>2. Encourage faculty and students to excel in emerging areas for potential research.<br>3. Engage faculty and students to undertake research in multidisciplinary areas.<br>4. Establish mechanism for technology commercialization to foster innovation and entrepreneurship. |

| | Metrics and Targets | 1. Apply for minimum five research funding projects in collaboration with industries and premier institutes to develop patentable products / design / processes useful for the society. |
| --- | --- | --- |
| | | 2. Promote atleast five startups every year |
| | | 3. Transform atleast 50 students into entrepreneurs every year. |
| | | 4. Establish atleast 10 centers of excellence in emerging areas for potential research by 2026. |
| | | 5. Ensure atleast 10 sponsored ongoing research projects from external funding agencies every year till 2026. |
| | | 6. Exchange atleast 20 MoUs with industries and premier institutes by 2026 for collaborative research activities |
| | | 7. Generate 50 Lakh/year income through consultancy. |
| | | 8. Publish atleast 3000 research papers in indexed journals and conferences by 2026. |
| | | 9. Achieve institutional Scopus h-index of 50 by 2026. |
| | | 10. Atleast 50 publications every year in Q1/ABDC Journals. |
| | | 11. Publish 50 patents every year with commercialization of atleast 5 patents by 2026. |
| | | 12. Encourage 50 multidisciplinary projects to be carried out by students by 2026. |

| 6 | Area | **Institution Perception** |
| --- | --- | --- |
| | Genesis | Contemporary society is not only a society of knowledge but also a competitive society. Educational institutions, in their capacity as providers of educational services to the whole society, are responsible for specific marketing actions to popularize their educational offer in response to the needs of society, in accordance with the resources and culture of the respective organization. In other words, the main task of educational marketing is to identify and understand both trends in the field as well as educational and training needs of the consumers of the educational market |
| 6.1 | Objective | To raise the visibility of the institution on par with institutions of international repute. |
| | Actions | 1. Seek Deemed-to-be University status. |
| | | 2. Strengthen outreach activities |
| | | 3. Expand alumni network |
| | | 4. Participate in national and international accreditations and rankings. |
| | Metrics and Targets | 1. Become Deemed-to-be University by 2026. |
| | | 2. Expand Alumni base to 12000 by 2026. |
| | | 3. Organize 20 international conferences by 2026. |
| | | 4. Organize 2 inter-institutional competitions every year. |
| | | 5. Invite 50 eminent Professors of international repute or industry experts to deliver expert talks every year. |
| | | 6. Depute atleast 2000 students to participate in inter-institutional events every year. |
| | | 7. Depute every faculty to attend atleast one event outside the institution every year. |
| | | 8. Maintain a standard that atleast 30% of faculty are from institutions of international repute. |
| | | 9. Participate in ABET accreditation process by 2026. |
| | | 10. Seek NIRF rank under 80 by 2026. |
| | | 11. Sponsor atleast five faculty to attend international events every year |

Dr. JVR Ravindra
**(Principal and Chairman of PEC)**

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## Planning and Evaluation Committee

### Implementation: Strategic Plan 2021-2026

The following metrics achieved during last two academic years (2021-22 to 2022-23)

### 1. GOVERNANCE

- State-of-the-art ERP software is procured and some of its features are already functional. It will be fully functional by December 2023.
- The college has applied for NBA accreditation for all the eligible PG programmes and we are expecting a visit schedule for six programmes.

### 2. PHYSICAL RESOURCES

- The college has a five- bedded health centre with one in house doctor and a student counsellor.
- The college has established state-of-the-art laboratories as per industry standards.
- Makerspace has been established to facilitate startups. It houses Hydrogen lab and Idea Lab. The idea lab will be fully operational by 2025.
- 95% of regular bulbs are replaced with LED bulbs.

### 3. HUMAN RESOURCES

- The college is maintaining the 1:15 FSR.
- More than 50% of the faculty undergo training programmes on cutting edge technologies every year with renowned organisations/ industries.

### 4. EDUCATION PROCESS

- Students have the provision to choose open electives, minors and honours courses and opportunity to start their entrepreneurial venture.
- About 50 technical activities under the aegis of professional societies are conducted.
- Training and Placement cell imparts training to students and makes ample placement opportunities available. All the eligible UG and PG students are placed.
- The college has a studio room where faculty record their lectures and those are made available online.

### 5. RESEARCH AND INNOVATION

- The college promotes startups. CIE is actively promoting startups by conducting Ideation camps.
- The R&D department of the college promotes research and there are more than 50 publications in Q1/ABDC journals every year.

### 6. Institution Perception

- The college hosts extension/ guest lectures by eminent professors as resource persons of national/international repute.

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Kacharam, Shamshabad, Hyderabad – 501218, Telangana, India

19-03-2022

## Extract of 11th Governing Body Proceedings

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

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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**

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Shamshabad, Hyderabad.

# VARDHAMAN COLLEGE OF ENGINEERING
(AUTONOMOUS)

Shamshabad– 501 218, Hyderabad

## STRATEGIC PLAN 2016-2020

1. **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.

2. **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.

3. **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.

4. **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.

5. **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

6. **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.

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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Shamshabad, Hyderabad.

## IMPLEMENTATION OF STRATEGIC PLAN 2016-2020

| SNo. | Key Targets Set | Implementation Status |
|---|---|---|
| 1. | **Institutional Holistic Development:**<br>▪ To become one among the top engineering colleges ofthe country.<br>▪ To attract better input of students of below 1000 rankin state level entrance test (EAMCET).<br>▪ To get the institute accredited by NBA under Tier-I and reaccredited byNAAC.<br>▪ To get UGC CPE status. | ▪ Vardhaman is accorded Autonomous Status by UGC for a period of 10 Years, from 2020-2021 to 2030-2031.<br>**Rankings:**<br>▪ Vardhaman College of Engineering is consistently ranked by deferent ranking agencies. |

a) **NIRF Ranking of MHRD:**

| Year | Category | Rank |
|---|---|---|
| 2021 | Engineering | 141 |
| 2021 | Overall | 151-200 Band |
| 2020 | Engineering | 143 |
| 2020 | Overall | 151-200 Band |
| 2019 | Engineering | 152 |
| 2018 | Engineering | 151-200 Band |
| 2017 | Engineering | 151-200 Band |

b) **Vardhaman is ISO 9001:2015 Certified**

c) **Vardhaman College of Engineering is Registered and Recognized as Scientific Industrial Research Organization (SIRO) by DSIR**

d) **ARIIA**

| Year | Rank |
|---|---|
| 2021 | Band "Excellent" Category |
| 2020 | Band B "Rank Between 26th to 50th" |

e) **Institution's Innovation Council (IIC) is establish at Vardhaman College of Engineering to undertake IIC activities to promote Innovation and Start-up in campus**

f) **Careers360**

| Year | Category | Grade |
|---|---|---|
| 2021 | | AAAA |
| 2020 | | AAA+ |
| 2019 | Engineering Colleges | AAA+ |
| 2018 | | AAA+ |

| SNo. | Key Targets Set | Implementation Status | | |
|---|---|---|---|---|
| | | 2017 | | AAA+ |
| | | 2016 | | AAA+ |

**g) Times India:**

| Year | Category | Grade |
|---|---|---|
| 2021 | Top 175 Engineering Institute Rankings 2021 Overall Rankings | 28th Rank |
| 2020 | Top Engineering Institutes in India | 31st Rank |
| 2019 | Top Private Engineering Institutes in India | 35th Rank |
| | Top Engineering Institutes in India | 46th Rank |
| | Top Private Engineering Institutesin Telangana | 4th Rank |
| | Top Private Engineering Institutes in Telangana - Placements | 4th Rank |
| | Top Private Engineering Institutes in Telangana - Research | 1st Rank |
| | Top Private Engineering Institutes in Telangana - Infrastructure | 1st Rank |
| 2018 | Top Engineering Institutes in India | 71 |

- CSR Engineering GHRD ranked Vardhaman in 4th Rank (Top Engineering Colleges of Excellence).

- Digital Learning has Ranked Vardhaman AAA+ in 2018

- The Week – Hansa has ranked Vardhaman 80th Rank in India.

- CMR Data Quest has ranked Vardhaman 42nd rank, Top T_ Schools (Private) 29th Rank, Industry interface 7th Rank.

**Admission Ranks:**

- To attract better input of students of below

| SNo. | Key Targets Set | Implementation Status |
|------|-----------------|------------------------|
| | | 1000 rank in state level entrance test (EAMCET). |

| Year | Starting Rank in TS EAMCET |
|------|----------------------------|
| 2020-2021 | 1839 |
| 2019-2018 | 2736 |
| 2018-2019 | 1911 |
| 2017-2018 | 3234 |
| 2016-2017 | 3621 |



**Accreditation:**
- 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.
- NAAC accredited Vardhaman with A++ Grade in Cycle-II with CGPA of 3.58 out of 4 Point Scale.

**CPE:**
- UGC has conferred Centre for Potential Excellence status to Vardhaman College of Engineering in the year 2016 with validity up to March, 2021.

| SNo. | Key Targets Set | Implementation Status |
|------|-----------------|------------------------|
| 2. | **Infrastructure Development:**<br>- To establish centre of excellences in each department on par with the industry standards.<br>- To upgrade the existing laboratory facilities as per the latest technology. | **Centre of Excellences:**<br>- In pursuance of the strategic plan, Vardhaman has established centre of excellences in ECE, CSE and ME departments.<br>  - **ECE:**<br>    - Centre of Excellence for IoT (Intel)<br>    - Microwave, Antennas and RF Engineering (COEMARE) |

| SNo. | Key Targets Set | Implementation Status |
|---|---|---|
| | <ul><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><li>Signal Processing</li><li>Virtual Instrumentation (NI LabVIEW Academy)</li><li>Cadence VLSI Design</li></ul> **CSE:** <ul><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> **ME:** <ul><li>Auto DESK centre of excellence</li></ul> **Infrastructure:** <ul><li>Upgraded Laboratories with latest technology equipment as perthe 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 10,000sft 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 & 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> |

| SNo. | Key Targets Set | Implementation Status |
|---|---|---|
| 3. | **Strengthening Faculty:**<br>▪ To ensure academic and research ambience on the campus 50% of the facultywith Ph. D qualification.<br>▪ To get the faculty updated with the current technological changes of the industry, faculty are to be encouraged to attend at leastone Faculty Development Program per semester by each faculty.<br>▪ To motivate the faculty towards self-learning and continual education faculty are to be advised to undergoat least one certification program per semester.<br>▪ To encourage faculty to publish their research work in peer reviews journals andconferences, and to give incentives for quality publications.<br>▪ To encourage faculty to attend academic activities like presenting papers in conferences, attending FDPs,training programs, attendingPhD course work etc. by providing leave on duty. | ▪ 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.<br>▪ Good Number of Faculty attended FDPs.<br>▪ Vardhaman Faculty got 440 and students 1506 SWAYAM NPTEL certifications towards continual education.<br>▪ Total 40 Gold Medals Certifications<br>▪ Total 90 Silver Medals Certifications<br>▪ Total 906 Elite Certifications<br>▪ 30 Faculty certified in AICTE- NPTEL FDP.<br>▪ Incentives/ Processing fee/ Registration fee is being paid for the Faculty towards Research Publications till now around 153 Faculty received the Incentives.<br>▪ 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.<br>▪ Academic Leave is being granted to the faculty who are pursuing PhD for attending their research review meetings/Pre-PhDexams/Attending conferences etc. |
| 4. | **Research & Development:**<br>▪ To apply for the grant of Recognized Research Centreby the university.<br>▪ To get sponsored projects for at least 20% of the faculty for an amount of 20 crores.<br>▪ To Create Engineering consultancy centre, cateringthe technical | **Research Centres:**<br>▪ 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 & GST exemption from the FY: 2018 – 2024.<br>▪ JNTUH granted research centres for CSE, ECE and MECH departments of Vardhaman college of Engineering from the Academic Year: 2018-2019.<br>▪ 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 |

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| | consultancy need of other Institutes. <br> ▪ To initiate collaborativeresearch with other organizations of repute. <br> ▪ To develop in house R&D byfacilitating required infrastructure and financial support. <br> ▪ To get at least 50 patents tobe filed by 2020 and to ensure at least 10% of the filed patent to get granted. <br> ▪ To create infrastructure for facilitating the faculty to undertake consultancy work. <br> ▪ Enhance MOU with premierIndian Technological Institutes and foreign Universities and Research Organizations. | faculty are involved in executing the projects. <br> ▪ Research facilities are upgraded to advance tools and equipment with the help of AICTE MODROBS scheme with an amount of 32.63 Lakhs. <br> ▪ Short term training/Refresher Programs/Faculty Development Programs towards emerging technologies in core domains and entrepreneurship & innovation are organized under various funding schemes like DST, AICTE, ISTE, E&ICT etc. for an amount of 15.89 lakhs. <br> ▪ Vardhaman Research Promotion Scheme(VRPS) is introduced for financial assistance of in house faculty to <br> Improve the R & D culture and observed tremendous participation and funded around Rs 55.76 lakhs. <br> **Consultancy:** <br> ▪ Around 45 consultancy works were taken up by all departments and amounting to Rs.90.00 lakhs. <br> ▪ 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. <br> **Collaborative Research:** <br> ▪ 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. <br> ▪ Most of the faculty publishing research articles in collaborating with other universities and observed the improvement in citations and h-index also. <br> ▪ 07 international Patents & 02 national patents got granted and 59 patents got published till now. <br> **MOU:** <br> ▪ 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. |
| 5. | **Career DevelopmentCell:** <br> ▪ Separate CDC Cell <br> ▪ Internships <br> ▪ 80% of the students eligibleto get placed <br> ▪ Placement Cell Strengthening <br> ▪ Strengthening Centre | **CDC:** <br> ▪ Career Development Cell is establishedand function to identify and implement skill development programs in advanced technological domain for students. <br> ▪ The cell has recruited expert trainers on full time basis to train the students so as to |

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| | forinnovation and Entrepreneurship(CIE)<br>▪ GATE Coaching<br>▪ Foreign Language Training Certification Programs by the industry | acquire skills needed by industry.<br>▪ The cell starts training students from II Year and training continue IV Year I Semester.<br>▪ Created provision for students to learn on their own at their<br>**Internships:**<br>▪ It is made Internship as mandatory as part of curriculum<br>▪ About 900 students are sent for Internships during last five years.<br>▪ As part of Industry Institute Interaction, around 70 faculty are sent for Industry Internships.<br>**Placements:**<br>▪ For the last five years more than 85% of eligible students are placed in companies of repute.<br>▪ The average package is increasing by 15% to 25% year on year.<br>▪ The medium salary as increased from 10% to 20%.<br>**CIE:**<br>▪ 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.<br>▪ Vardhaman has adapted National Innovation and Start-up policy 2019 released by Government of India.<br>▪ A dedicated team has formed for establishment and implementation of Institution's Innovation Council (IIC), MHRD, MoE, Government of India.<br>▪ 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. https://vardhaman.org/achievements-of-cie/<br>▪ In-house GATE coaching is offering in Vardhaman. |

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| | | ▪ Several certification programs offered by Industries are conducted for the last five years like Google, UIPath, Oracle, CISCO, ARC, NI, PSCAD, ANSYS, BEC etc. |
| 6. | **Academic Excellence:**<br>▪ To Improve the teaching/learning environment<br>▪ To implement outcome based education in toto.<br>▪ To introduce choice basedcredit system.<br>▪ To introduce Open Electives.<br>▪ To encourage the students toundergo online certification courses like NPTEL.<br>▪ Promote and support institution readiness to adopt present and future technological development. | ▪ With Academic Autonomy, Curriculum is revised every two to three years as per the Industry requirement.<br>▪ Choice Based Credit system and open electives are introduced in modified curriculum.<br>▪ Course Assessments are being done semester wise and assuring the set attainment levels reached.<br>▪ Outcome based Education is being practiced.<br>▪ Around 2000 students are certified by SWAYAM NPTEL in various advanced courses.<br>▪ Around 1500 students and faculty undergone various certification programs under COURSERA.<br>▪ Regular workshops are conducted for faculty on pedagogical training. |
| 7. | **Examination Reforms:**<br>▪ To introduce digitalevaluation.<br>▪ To train the faculty to set the question papers as per the Blooms level. | ▪ Digital Evolution is under consideration as a trail for PG programs.<br>▪ All the question papers are set as per bloom's levels to have a standard and balanced question paper. |