VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

An Autonomous Institution
(Accredited by NAAC, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Aziz Nagar Gate, C.B. Post, Hyderabad - 500 075

Strategic Plan

Department of Civil Engineering
Quality Document of the Department

2020-2025

JANUARY - 2020

CONTENTS

	8. Ph.D. Completed in the years 2016-17/2017-18/2018-19/2019-20	Table :16
	9. Ph.D Registered 2016-17/2017-18/2018-19/2019-20	Table :17
	10. Academic Activities Conducted from July 2016 to July 2020	Table :18
	11. Collaborative activities for research/Faculty Exchange/Student exchange	Table :19
	12. Faculty involvement in other organizations (Expert Committee members, BoS, PhD and PG thesis evaluators/ Academic Council members/Governing Body members)	
	13. Strategic plan for accomplishing this goal in next two years July 2020- July 2022	
	14. Strategic plan for accomplishing this goal in next 3 years July 2023-July 2025	
8.	**Developing Research Interest among Students**	
	1. Initiated activities for achieving goal (Technical Events/Projects Expos/Design Contests/Tech Fests) from July 2016 to July 2020	Table :20
	2. Students Research Publications	Table :21
	3. Strategic plan for accomplishing goal in next two years July 2020- July 2022	
	4. Strategic plan for accomplishing goal in next 5 years July 2020- July 2025	
9.	**Placements & Higher Studies**	
	1. Initiated activities for achieving goal for Placements from 2016-17/2017-18/2018-19/2019-20	Table :22
	2. Strategic plan for accomplishing goal in next two years July 2020- July 2022	Table :23
	3. Initiated activities for achieving goal for Higher Studies from July 2016-17/2017-18/2018-19/2019-20	Table :24
	4. Industry perception about our students : Any feedback taken and its analysis	
	5. Strategic plan for accomplishing goal in next two years July 2020-July 2022	
10.	**Innovation & Entrepreneurship**	
	1. Program Conducted by Institute Related to IPR, Entrepreneurship / Start-ups & Innovation 2016-17/2017-18/2018-19/2019-20	Table :25
	2. Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus	Table :26
	3. Hackathons Participation/Project Expo /Technical Projects Winners/Awards	Table :27
	4. Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus	
	5. Strategic plan for accomplishing goal in next two years July 2020-July 2022	
11.	**Improving Industry Institute Interaction**	
	1. MoUs'	Table :28
	2. Industry Feedback and inputs on Curriculum/Analysis report/Follow up action (Mention the inputs given by Industry experts for the last 4 years)	
	3. Strategic plan for accomplishing this goal in next two years July 2020- July 2022	
12.	**Equity action plan to help socially and academically weak students and teachers**	
	1. Initiated Measures for academically week students	
	2. Measures taken for Low feedback on faculty for improvisation in teaching	
	3. Strategic plan for accomplishing this goal in next two years July 2020- July 2022	
	4. Strategic plan for accomplishing this goal in next three years July 2023- July 2025	
13.	**Obtaining accreditation NBA/NAAC 2nd Cycle /renewal for courses (UG/PG) offered by the department**	
	1. Measures Initiatedfrom Department side for NBA/NAAC (2016-17/2017-18/2018-19/2019-20)	

	2. Action Plan for next cycle of accreditations NBA/NAAC	
	3. Action Plan for NBA Compliance report	
	4. Strategic Plan for the improvement of quality parameters with respect to NBA/NAAC in the next 2 years July 2020 to July 2022	
14.	**Best Practices followed in the Department**	
	1. For improving department level administration if any practices are implementing please mention	
	2. Best Practices followed teaching & Learning / any student centric approaches/Any other Practice	
	3. Strategic plan for accomplishing this goal in next two years July 2020- July 2022)	
15.	**Outreach: Improving relations with community and society by taking up social relevant research projects etc.**	
	1. Initiated activities for achieving this goal/List of projects	
	2. NSS/NGO Initiatives of the department	Table :29
	3. Awards & Recognition received for extension activities from Government and other recognized bodies	
	4. Strategic plan for accomplishing this goal in next two years July 2020- July 2022	
16.	**Students Achievements / Activities**	
	1. Available Professional Chapters/Professional Chapter and its activities	Table :30
	2. Achievements in Sports (Awards International/National/University level/Institute Level	Table :31
	3. Achievements in Cultural Activities	Table :32
	4. Students Certifications	Table :33
	5. Students Internships	Table :34
	6. Strategic plan for accomplishing this goal in next two years July 2020- July 2022	
17.	**SWOC Analysis (Strengths/Weaknesses/Opportunities/Challenges)** **Please mention your department SWOC Analysis point wise**	

1. Introduction about the department

The Department of Civil Engineering of VJIT started during academic year 2013-14 with an annual intake of 60. The strength has been increased to 120 in the year 2014-15. The course is approved by AICTE and affiliated to JNTU Hyderabad. VJIT has been granted Autonomous Status during the year 2015-16. The department is bestowed with highly qualified, motivated and dedicated faculties supported by modernized and well-equipped laboratories with State of Art facilities to cater the needs of UG and PG courses. Apart from technical education the department provides the students with research experience, facilitating students to work closely with research exercises where several undergraduate and postgraduate students along with faculty have presented their research at National and International Conferences and bagged many Awards. The Department equally believes in promoting industrial applications in engineering and continuously motivates students to work with the industry to have industry experience.

2. Vision and Mission of the Department

Vision: To be a pioneer in carving out world class civil engineers

Mission
M1: To create productive environment for the graduates to be competent globally.
M2: To foster dedicated innovative teaching and learning environment by emphasizing planning and design aspects of civil engineering problems through lifelong learning.
M3: To establish centre of knowledge in emerging areas of civil engineering in collaboration with industry.

3.
4. Strategic Goals

1. Students Admission Quality/Academic Progress
2. The quality of courses and its sustainability

The courses offered by the department are the best integration of industry demand and recent trends, to achieve this department have offered Green building Technologies as one of the Professional electives and the Industry oriented Computational laboratory.

3. Enhancing the quality of Teaching – Learning :

The teachers are motivated to attend several STTP, FDP, QIP, web learning through NPTEL which Up-gradation the knowledge and teaching skills. Also teachers are encouraged to use modern teaching aid (Already the model based learning laboratory proposal submitted to Management for approval)

4. Scaling up of Research competency and Consultancy among faculty:
   - *Providing platform to the faculty and students for R & D activities by encouraging research publication in a reputed journal, conferences, etc*
   - *Encouraging faculty members to enroll for research programs*
   - *Encourage faculty and students for collaborative research work*
   - *Apply for R& D projects funding for the funding bodies like SERB,DST etc*

5. Developing Research Interest among Students

Encouraging students to attend conferences, work on innovative ideas in project work, and write research papers.

6. Placements & Higher Studies

   - *The several expert talks can be arranged for career guidance.*
   - *The students need to motivate for more number of registrations with T&P so that the students can utilize the training from placement cell which can help students to seek job in software domain.*

- *The students will be guided for certification courses in civil engineering domain like ACAD, Staad, Quantity surveying, Advanced surveying to create opportunity to get placed in core jobs and the starting hiring package can be improved with the skill set what they have. Such training can be arranged under placement cells or in department with external agency.*
- *The students can be encourage for more no. of higher studies in Premier institutes in INDIA and abroad*

7. Innovation & Entrepreneurship
   - *The students will be guided to work on innovative ideas through model making and guided and motivated to participate in several competitions on technical aspects.*
   - *The students will be encouraged for to be an Entrepreneurs by guiding them for licenses contracts, consultancy services for their self business.*

8. Improving Industry Institute Interaction
   - *To improve the no. of contacts and no. of MoUs with industry to have committed activities like collaborative major projects, internships, Support for events organization, guest lectures, workshops by industry experts, consultancy etc.*
   - *To enhance the industry collaborative student's major projects leading to the placement, summer internship, improving the quality of projects.*

9. Equity action plan to help socially and academically weak students and teachers
   - *The department is continuously put efforts on the slow learners and academically poor students and conducts the extra tutorial classes in zero hours everyday with a proper timetable of such classes.*
   - *Also during online mode the weekly counseling session are schedule to understand the difficulty and students are linked up with separate doubt sessions by the respective teachers.*
   - *Also the teachers who need to improve teaching skills (Fresher in teaching) and fundamentals are guided to appear for NPTEL web courses and encouraged to attend FDPs and short courses*

10. Obtaining accreditations NBA & NAAC 2nd Cycle/NBA renewal for courses UG offered by the department
    - *Department is first time appearing for NBA and presently working on evidence files work for inspections purpose.*
    - *And this process will be continuing after NBA inspections also by considering the comments given by NBA committee.*

11. Best Practices followed in the Department
    - *The department encourages students' community to come up with their ideas on the technical and social issues. To address such issues department started "Delta Club" in 2015 which is run by students and all students are the part of it. This club organized several events since its establishment on monthly basis which generally includes the activities on the that semester courses like learn with fun, small scale model making, Mind maps, River linking activities, Town*

planning etc. apart from this students are encouraged to be a part of organizing committee of all the events which are organized by the department through which the skills like teamwork, communication and ethics will improve.

- *Also department has established "Knowledge centre" under the professional body, Indian Concrete Institute (Telangana) in the year Sept 2019. This knowledge centre offers the skill development programs like internship, Training to non teaching staff, Industry training to students etc.*

12. Outreach: Improving relations with community and society by taking up social relevant research projects etc.

The department in association with NSS contributes to societal activities

13. Students Achievements / Activities

The students are encouraged to take part in several technical events, model making compitions, poster presentations, paper presentations etc. The It has been noted that the students received the award of "Best students chapter" in year 2019, 2nd prize in ASCE poster competions, First prize in Model making National college fest, Best paper award in National conference. Also the departments will continuously putting efforts to improve these achievements.

14. SWOC Analysis (Strengths/Weaknesses/Opportunities/Challenges)

Strengths
- Qualified, experienced and motivated faculty members
- Excellent team work among faculty and students
- Revised and updated curriculum of UG & PG programme
- Academic calendar is strictly adhered to the schedule
- The department faculty recently started guiding research scholars.
- Very few motivated students
- Effective monitoring system for the students

Weakness
- In adequate infrastructure and classroom ambience
- Inadequate no. and skillful supporting staff
- Less no. of Decorates
- Lack of placement activities
- Lack of opportunities to attract consultancy activity
- Inability to attract research projects from SERB/DST.
- Inability to attract AICTE grants due to the young existence of the department.
- Poor performance of students in examination
- Demotivated students and no support from parents
- Lack of research students as no recognition of research centre by University
- Poor R&D support from management

Opportunities

- Flexible curriculum
- R&D & consultancy
- International collaboration
- Improved campus placement
- Starting new certification courses
- To start revenue generation
- Development of faculty and supporting staff
- Networking with National R & D labs., IITs
- PG Research Lab

Challenges

- Low level of competency of supporting staff
- Poor remuneration / employment opportunities for fresh graduates
- Disciplines quality of the students
- To attract research grants and consultancy work