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Bhaskar Nagar, Yenkapally(V), Moinabad (M), Himayathnagar (P.O.), R.R. Dist., Hyderabad -500 075, Telangana.

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2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process.

The Institute implements student centric methods to improve student involvement in problem solving methodology and experimental & participative learning. In this regard, Active Learning, Collaborative Learning, Use of Technology, Laboratory experimental learning and project work are held regularly.

1. Active Learning

Active learning methodologies such as discussions, debates, hands-on activities, and problemsolving tasks promote student engagement and critical thinking. It encourages students to take ownership of their learning process and apply theoretical knowledge to real-world scenarios.

2. Collaborative Learning

Collaborative learning fosters teamwork, communication, and social skills among students, enhancing their interpersonal abilities. Group projects, peer-to-peer collaborations, and collective problem-solving activities cultivate a sense of community and cooperation within the classroom.

3. Use of Technology

Integrating technology into the teaching learning process enhances the accessibility, engagement, and interactivity of educational content. Educational apps, online resources, multimedia tools, and virtual simulations provide innovative avenues for learning and expand the horizons of traditional teaching methods.

4. Laboratory experiential learning:

Technical education is always justified with the help of practical knowledge. Thus from the first year students are exposed to all the laboratories.



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5. Project Work:

To enhance the practical knowledge & innovative approach, students are encouraged to carryout Project work in IV Year.

Challenges in the Teaching Learning Process:

Despite its merits, the teaching learning process faces various challenges such as limited resources, diverse student needs, teacher burnout, and technological barriers. Addressing these challenges requires collaborative efforts, innovative solutions, and continuous improvement in pedagogical practices.

Conclusion:

In conclusion, the teaching learning process is a dynamic and multifaceted endeavor that shapes the educational landscape and empowers individuals with knowledge and skills. By embracing effective strategies, overcoming challenges, and fostering a culture of active learning, educational institutions can optimize the teaching learning process for the benefit of students and society.

Teachers use the following support structures and systems.

Experiential Learning:

- Student seminars, projects, workshops, paper presentations, group discussions have been streamlined for interactive learning.
- Infrastructure for ICT enabled teaching and learning.
- Air-conditioned seminar hall with the precise ambience for conducting Guest lectures and interactive sessions with successful alumni are organized in each semester.



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Participative Learning:

- · Industrial visits are organized for each semester.
- Audio-visual aids are used for better learning and understanding.
- Internship in industries and companies is facilitated for collaborative learning process.
- Ample computer facility with internet connection and Wi-Fi connectivity is arranged for independent and interactive learning.
- Facilities are arranged to students for preparing charts, posters and models for Exhibition.
 Well-equipped digital library with access to e-journal learning.
- Students are encouraged to participate in seminars, workshops and Technical quiz to develop analytical skills.

Problem Solving Methodologies:

- The Institution provides sufficient teaching aids (LCD projectors) for effective curriculum delivery.
- Faculty make use of models, graphs, power point presentation through ICT tools to
 present the content of the syllabus. Tutorial classes are arranged to corroborate problem
 solving methodologies.

ICT tools can be used to find, explore, analyze, exchange and present information responsibly and without discrimination. ICT can be employed to give users quick access to ideas and experiences from a wide range of people, communities and cultures.

Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities include use of ICT, instruction delivery, instructional methods, assessment, evaluation and inclusive class rooms that lead to effective and efficient instruction.



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Following are the best and innovative practices for improving teaching and learning experience:

- · Presentations through Power Point Slides.
- Spoken Tutorial.
- Students Technical Seminars.
- Group Discussion.
- · Industrial Visits.
- · Internal and pre-university examinations.
- Mini & Major Projects.
- Soft Skills Development.
- Internal viva voce in labs.
- Modern teaching aids like Projectors, and Internet enabled Computer systems.
- Conduct of paper contest, poster presentations.
- Teachers deliver content beyond the syllabus apart from their class room instruction

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