



Janata shikshan prasarak mandal's

Marturaoji Ghule Patil Art's ,Commerce and Science College Ahmednagar



INTRODUCTION

The traditional Indian teaching-learning system has been driven by *Guru-Shishya parampara*. It is a holistic system which provided comprehensive knowledge, value-based learning as well as requisite life skills suited to the learners. Diverse pedagogies have been used for achieving core objectives of the entire learning processes, which included exposure to real life experiences and hands on learning, value-based learning through stories/narrations, problem-solving through explorations, role plays, memorization and dissemination through debates and discussions. In the past few decades, various policy frameworks have been developed to address the evolving needs of different pedagogical approaches in higher education.

The recent National Education Policy 2020 (NEP) is the outcome of mammoth exercise to integrate Indian traditional value-based education with the present technology dominated teaching and learning process. It aims to overhaul the existing education system through a multipronged approach, one of which is developing a pedagogy that makes education more experiential, holistic, integrated, inquiry-driven, discovery-oriented, learner-centred, discussion-based, flexible and enjoyable. As the NEP 2020 strives to develop well-rounded, competent individuals with 21st-century skills, the curricula and pedagogies have to be reoriented and revamped for the same, which includes raising the standard of curricula and using appropriate pedagogies to deliver effectively to the learners.

Lecture method with chalk and board, remains the primary method of teaching where direct interaction happens between teacher and students. Student centric methods are used for enhancing learning experiences. Some methods put in practice by the faculty are:

Inquiry based method:

Students are encouraged to ask questions on subjects being taught. They are provided with appropriate tools and techniques to generate the data during laboratory practical work. As part of their research, they get opportunity to conduct investigations, and find solutions scientifically. As part of



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co-curricular activity, seminars on current topics and recent academic advancement are arranged.

Discovery based method:

Student investigates on real time experimental setup to obtain research findings by interpreting the results with appropriate conclusion. All necessary resources and support are provided to learners and faculty during practical investigations. Teamwork is enhanced while independence in learning is encouraged.

Problem based learning:

The projects or problems selected are based on real-life scenarios, here the elements of teamwork, data collection, critical thinking is used by the students. This encourages self directed learning, prepares students to think critically and analytically, empowers students to identify, locate and use appropriate resources. College R&D Cell seek active cooperation for projects from industry.

Project based learning:

Projects are part of academic requirement for the final year for students who work individually or collectively under their guide to gather and present their work at the term end. Prototype and Model competitions are held to boost student understanding of the subject.

Resource based learning:

College has a centralized library and digital library containing text books, magazines, Journals, e-books, reference books, multimedia computers, dissertations, videos, DVDs, online material like NPTEL lectures and Virtual Labs etc for all students. The Institute has a language lab and Wi Fi hotspots in the campus. Enquiry is supported through library software for electronic search. Library assignments are given by teachers to foster student's autonomy in learning by using appropriate resources. The library is upgraded regularly and the library is open for access throughout the year.

- Specific support strategies adopted in the learning process are:
Assignments, Problem solving, Seminars, Power point presentations
- Tutorial lectures, Guest Lectures, Group discussions, Industry visits, conferences, workshops, visits to R&D laboratories
- Soft skill program, finishing school and departmental fests are conducted



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- Flipped classes are conducted for students by uploading study materials and videos on Learning Management System.
- Models, charts, posters and diagrams are used to make learning interesting.
- Eminent personalities, industrial experts, entrepreneurs are invited to share their success stories with the students.
- As an initiative of the 'Talk to a Teacher' activity of the National Mission on Education through ICT, The Institution has a tie-up with IIT Bombay to use spoken tutorials, developed by them. This is about teaching and learning a particular FOSS.
- Students publish articles in the institute magazine, present & publish papers in symposia.
- Active learning strategies like think pair share, Minute paper, just in time assignments are practiced in the classrooms.
- Faculty upload study material, classroom videos, assignments and conduct online tests using LMS to facilitate self-learning.



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**STUDENT CENTRIC METHODS ADOPTED FOR ENHANCING STUDENT
LEARNING EXPERIENCE THROUGH**

EXPERIENTIAL LEARNING, PARTICIPATIVE LEARNING, PROBLEM SOLVING.

1. Projects and Field Practicum

- 1.1 Projects as built-in components of the courses
- 1.2 Standalone minor and major project courses
- 1.3 Live projects in domain courses

2. Industry Academia Partnerships

- 2.1 Industry Integrated Labs
- 2.2 Industry responsive programs (Domains)
- 2.3 Licensed software's and Industry level technology platforms
- 2.4 Internships and Apprenticeship
- 2.5 Industry Visits and Exposure Visits
- 2.6 Knowledge on wheels

3. Skill Courses

4. Events

- 4.1 Guest Lectures, Seminars, Workshops and Symposia on new age topics
- 4.2 Student Seminars, Presentations, Wall Magazine and Newsletter
- 4.3 Practitioners handling themes
- 4.4 Exhibitions, hackathons and entrepreneurial expo.

5. Contemporary Learning Teaching Ecosystem

- 5.1 Group learning and flip class pedagogy
- 5.2 ICT enabled teaching and learning
- 5.3 Case Studies
- 5.4 Dissertations and Book Reviews



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6. College Community Linkages

7. Focus on Sector of

- 1.value based education
- 2.character development
- 3.responsible citizens

UGC MANNUAL LINK FOR PADAGOGY APPROCH

[https://drive.google.com/file/d/1XVnQRxtiv9k1gN5Sdf2HqIcZ1Ba7WJXr/view?usp=drive link](https://drive.google.com/file/d/1XVnQRxtiv9k1gN5Sdf2HqIcZ1Ba7WJXr/view?usp=drive_link)