

University of Technology

School of Basic and Applied Sciences

CASE STUDY OF A SLOW LEARNER

Student Name: Nitin Jain

Enrollment Number: UOT/BSC/2022/047

Course: B.Sc. (Physics, Chemistry, Mathematics)

Semester: IV

Department: School of Basic and Applied Sciences

Mentor: Dr. Shyam Sundar Yadav

Date of Case Study Initiation: 14 April, 2024

1. Academic Performance Overview

- **Internal Assessment Scores (Semester III):**

- Physics: 18/40
- Chemistry: 20/40
- Mathematics: 15/40

- **End-Semester Examination Scores:**

- Physics: 34/100
- Chemistry: 38/100
- Mathematics: 30/100

- **Attendance:**

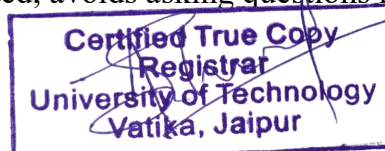
65%

2. Identification Criteria

- Below average scores in internal and end-sem exams
- Poor classroom participation
- Difficulty in grasping numerical and theoretical concepts
- Identified by subject teachers and mentor through continuous observation

3. Background Information

- **Family Background:** Middle-income family; parents run a small business
- **Medium of Schooling:** Hindi
- **Language Barrier:** Struggles to understand complex English content
- **Health Issues:** None reported
- **Behavioral Observations:** Silent, introverted, avoids asking questions in class



4. Challenges Observed

- Lacks confidence in core subjects
- Difficulty in understanding abstract and numerical concepts
- Irregular in assignment submissions
- Language comprehension issues
- Gets easily demotivated after low marks

5. Interventions Taken

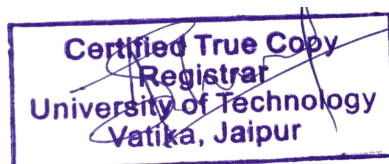
Date	Activity / Support Provided	Faculty Involved	Remarks
20-Apr-2024	Remedial Classes in Physics and Mathematics	Dr. Shyam Sundar Yadav	Started with basics
25-Apr-2024	Peer Group Learning (assigned class topper)	Mr. Nitin Sharma	Weekly review scheduled
02-May-2024	Provided notes in Hindi and simple English	Subject Teachers	Helped in conceptual understanding
10-May-2024	Counselling and motivation session	College Counsellor	Boosted self-confidence
15-May-2024	Parent-teacher telephonic meeting	Class Mentor	Parent assured support at home

6. Outcomes and Improvements

- Improvement in test performance (20–30% increase in class tests)
- Increased classroom participation and question asking
- Completed all assignments for the first time in Semester IV
- Mentor feedback: shows interest, requires continuous support

7. Follow-Up Plan

- Weekly remedial sessions for Mathematics and Physics- **Annexure-1**
- Continuous academic counseling **-Annexure-2**
- Monthly progress review by mentor **-Annexure-3**
- Encouraged to participate in quizzes and subject discussions--**Annexure-4**

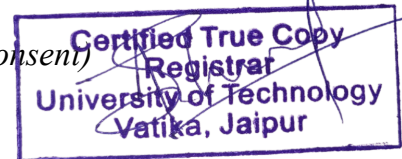


8. Conclusion & Remarks

Nitin Jain is a dedicated student facing conceptual and language-related challenges. Through structured support and mentoring, noticeable improvement has been observed. With continued academic intervention and motivation, he can achieve satisfactory academic success.

9. Signatures

- **Mentor:** Dr. Shyam Sundar Yadav
- **HOD:** Dr. Jitendra Kumar
- **Parent / Guardian:** Mr. Rajesh Jain (*Telephonic Consent*)
- **Date:** 14 June, 2024



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Weekly Remedial Class Timetable

For: Slow Learners (Mathematics & Physics)

Venue: Room No. 204, Basic Sciences Block

Duration: 1 Hour per Session

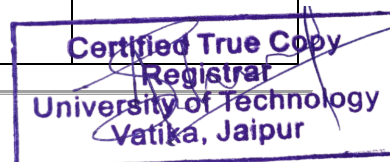
Faculty In-Charge:

- **Mathematics:** Mr. Nitin Sharma
- **Physics:** Dr. Shyam Sundar Yadav

Day	Time	Subject	Topic Focus	Faculty
Monday	3:00 – 4:00 PM	Mathematics	Algebra – Problem Solving Techniques	Mr. Nitin Sharma
Tuesday	3:00 – 4:00 PM	Physics	Mechanics – Concept Reinforcement	Dr. Shyam Sundar Yadav
Wednesday	–	–	Self-study / Practice Assignments	–
Thursday	3:00 – 4:00 PM	Mathematics	Calculus – Application-based Problems	Mr. Nitin Sharma
Friday	3:00 – 4:00 PM	Physics	Electricity – Numericals Practice	Dr. Shyam Sundar Yadav
Saturday	12:00 – 1:00 PM	Combined Doubt Clearing Session	Weekly Review + Doubt Session	Both Faculty
Sunday	–	–	Weekly Self-Assessment (Home-based)	–

Additional Notes:

- Attendance is mandatory for identified students.
- Students must bring previous assignments and doubts.
- Assessment quizzes will be held on **alternate Saturdays**.



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Continuous Academic Counseling Plan

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For: Slow Learners

Objective: To provide ongoing academic guidance, emotional support, and motivation to improve performance and confidence of identified slow learners.

1. Goals of Continuous Counseling

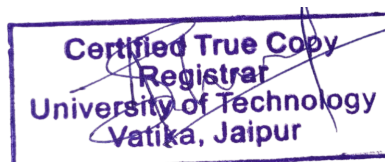
- Identify individual learning difficulties
- Monitor academic and behavioral progress
- Improve self-confidence and motivation
- Bridge the gap between classroom teaching and student understanding
- Ensure emotional and psychological support

2. Counseling Structure

Component	Details
Frequency	Bi-weekly (Every 2nd and 4th week of the month)
Duration per Session	20–30 minutes per student
Mode	Face-to-face (preferred); Online (if necessary)
Counselor	Assigned Faculty Mentor / Departmental Counselor
Venue	Mentor's Chamber / Counseling Room / Department Office

3. Counseling Activities

Type of Support	Examples
Academic Guidance	Time management tips, study planning, assignment tracking
Subject-Specific Help	Simplified explanation of difficult concepts, problem-solving drills
Emotional Support	Addressing fear of failure, building confidence



Goal Setting	Weekly/monthly academic targets
Feedback Mechanism	Regular discussion on class tests and performance
Parent Involvement	Telephonic or in-person feedback sessions (monthly or as needed)

4. Documentation and Monitoring

Tool	Description
Student Counseling Record	Logbook maintained by mentor with date, topics, and remarks
Progress Tracker	Spreadsheet/format comparing performance over time
Feedback Forms	Collected from students post-session to assess effectiveness
Monthly Report	Shared with HOD/IQAC Coordinator highlighting improvements & needs

5. Sample Counseling Log Entry

Student Name: Nitin Jain

Date: 25 May, 2024

Issues Discussed: Low marks in Mathematics; avoids class participation

Action Taken: Suggested specific YouTube tutorials, simplified notes provided, personal encouragement

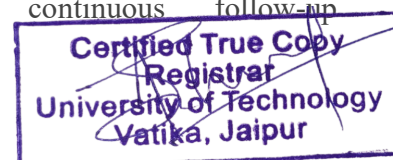
Follow-Up Plan: Attend all remedial sessions and submit 2 extra practice sets before next session

Remarks: Slight improvement in confidence, needs continuous follow-up

Counselor Signature: Dr. Shyam Sundar Yadav

6. Outcomes Expected

- Increase in internal assessment and semester exam scores
- Improved class participation
- Higher self-confidence and reduced anxiety
- Clear study targets and better subject understanding



University of Technology, Rajasthan

Monthly Progress Review Report by Mentor For Slow Learners

1. Basic Information

- **Student Name:** Nitin Jain
- **Enrollment Number:** UOT/BSC/2022/047
- **Program & Semester:** B.Sc. IV Semester
- **Department:** School of Basic and Applied Sciences
- **Mentor Name:** Dr. Shyam Sundar Yadav
- **Review Month:** May 2024
- **Date of Review Meeting:** 31 May 2024

2. Academic Progress

Subject	Previous Score (%)	Current Score (%)	Remarks
Physics	34	46	Improved understanding of mechanics
Chemistry	38	42	Moderate progress; needs more practice
Mathematics	30	45	Good improvement; remedial classes helping

3. Attendance and Participation

Parameter	Status	Remarks
Remedial Class Attendance	90%	Punctual and regular
Class Participation	Improved	Asking questions, attempts answers
Assignment Submission	On time	Completed all tasks assigned

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4. Behavioral and Emotional Observations

- Appears more confident and motivated in class.

- Participates in group learning and peer discussions.
- Shows a positive attitude towards studies.
- Still hesitant in public speaking but gradually improving.

5. Summary of Interventions Taken

- Regular remedial classes in Maths and Physics
- Simplified notes and recorded lectures provided
- Continuous mentoring and motivation sessions
- Weekly problem-solving practice
- Parental involvement through regular updates

6. Suggestions / Plan for Next Month

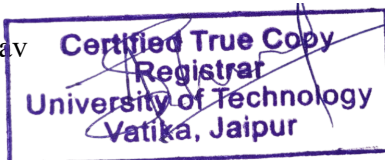
- Focus more on Chemistry with additional practice questions
- Participate in departmental quiz competition for confidence
- Weekly self-assessment sheets to be submitted
- Maintain remedial class attendance above 90%

7. Mentor Remarks

“Nitin has shown significant academic and behavioral improvement in the past month. With sustained efforts and continued support, he is expected to perform satisfactorily in the semester-end exams.”

Signatures

- **Mentor:** Dr. Shyam Sundar Yadav
- **HOD:** Dr. Jitendra Kumar
- **Date:** 31 May 2024



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Encouraged to Participate in Quizzes and Subject Discussions

To build confidence, deepen understanding, and develop academic interest, Nitin Jain has been actively **encouraged to participate in departmental quizzes and subject-based discussions** as part of his academic improvement plan.

Objectives:

- To overcome hesitation in expressing subject knowledge.
- To promote active learning and peer interaction.
- To provide a platform for practical application of concepts.
- To instill a sense of academic responsibility and competitiveness.

Initiatives Taken:

- Nitin was **paired with a peer group** for weekly informal subject discussions under faculty supervision.
- He was **assigned a small topic to present** in front of his classmates in the Physics remedial session.
- He was **nominated for the Basic Science Department's internal quiz competition** held on 18 May 2024.
- Faculty members encouraged him to **ask at least one question** during classroom discussions and remedial classes.

Observations:

- Initially hesitant, Nitin gradually started participating and attempted answers during class.
- He performed reasonably well in the quiz, especially in Physics.
- He began engaging in one-on-one academic discussions with peers and faculty.

Impact:

- Improved verbal articulation of scientific concepts.
- Boosted self-confidence and reduced fear of public academic interaction.
- Fostered a healthy attitude towards group learning and competition.

Follow-Up Plan:

- Continue assigning short topics for class presentations every fortnight.
- Enroll in upcoming departmental events like poster presentations and model exhibitions.
- Regularly acknowledge his participation to keep motivation levels high.

