

A Review of Early Identification, Educational Support and Remedial Strategies for Slow Learners

Prof. Milind Deshkar¹, Prerana Dhake², Rachana Kirange³, and Vivek Raval⁴

¹Guide and ^{2,3,4}Student

^{1,2,3,4}Department of Master of Computer Applications, ASM's Institute of Business Research and Management, Pune, Maharashtra, India

Abstract— Slow learners are students who require additional time, guidance, repetition, and appropriate educational support to understand and retain academic concepts. Their difficulties may be related to learning pace, memory, attention, reasoning, motivation, emotional factors, health, and environmental conditions. Early identification and appropriate intervention can help teachers and parents understand individual learning needs and provide suitable educational support. This review synthesizes four studies by Chauhan (2011), Thiyagarajan (2019), Korikana (2020), and Imran et al. (2023), focusing on characteristics, identification, educational support, and remedial strategies for slow learners. The reviewed studies emphasize individualized instruction, remedial teaching, positive reinforcement, counselling, peer support, parental involvement, and supportive learning environments. The literature also highlights the importance of early identification and continuous monitoring of learner progress. However, gaps remain in standardized identification methods, long-term evaluation of interventions, comparative studies of teaching strategies, and systematic use of educational technology. The review concludes that a learner-centred and individualized approach can provide better educational opportunities for slow learners.

Keywords— Early Identification, Educational Support, Inclusive Education, Individualized Learning, Remedial Teaching, Slow Learners.

I. INTRODUCTION

Learners differ in learning speed, abilities, interests, motivation, memory, attention, and educational requirements. Some students understand academic concepts quickly, whereas others require additional time, repetition, individual attention, and appropriate instructional support. Students who progress more slowly than their peers are commonly described in educational literature as slow learners.

Slow learners may experience difficulty in understanding abstract or complex concepts, remembering previously learned information, maintaining attention, reasoning, completing academic tasks, communicating their ideas, and sustaining motivation. Slow learning should not be interpreted as a complete measure of a learner's ability or potential. Learners may demonstrate strengths in practical work, creativity, communication, social interaction, or other areas that conventional examinations do not fully capture.

The educational difficulties of slow learners may be influenced by interacting personal, educational, emotional, health-related, and environmental conditions. Chauhan examined psychological characteristics and educational programmes for slow learners [1]. Thiyagarajan discussed the issues and remedial needs of slow learners in

heterogeneous ESL groups [2]. Korikana emphasized educational opportunity, counselling, motivation, and supportive conditions [3]. Imran et al. focused on early identification, intervention, collaboration, and inclusive educational support [4].

This review synthesizes the four studies thematically instead of presenting a separate summary of each paper. It examines characteristics and associated factors, early identification, remedial strategies, stakeholder roles, research gaps, and implications for educational practice.

II. OBJECTIVES OF THE REVIEW

The objectives of this review are:

- a. To examine the major characteristics and challenges associated with slow learners.
- b. To identify personal, emotional, environmental, and educational factors related to slow learning.
- c. To examine early identification and assessment approaches.
- d. To review educational and remedial strategies.
- e. To understand the roles of teachers, parents, peers, and schools.
- f. To identify research gaps and future research directions.

III. REVIEW METHODOLOGY

This paper presents a focused thematic review of four studies concerning slow learners and educational support. The studies were selected because they address complementary aspects of the topic, including psychological characteristics, classroom challenges, educational opportunities, remedial measures, early identification, and intervention.

The studies reviewed are: Chauhan (2011), "Slow Learners: Their Psychology and Educational Programmes"; Thiagarajan (2019), "An Analytical Study on the Issues and Challenges of Slow Learners and Remedial Measures for Heterogeneous Group of ESL Learners"; Korikana (2020), "Slow Learners—A Universal Problem and Providing Educational Opportunities to Them to Be a Successful Learner"; and Imran et al. (2023), "Early Identification and Intervention: Amplifying the Voice of Slow Learners."

The papers were compared according to learner characteristics, associated factors, identification, educational support, remedial instruction, motivation, stakeholder involvement, inclusive education, and technology. Similar findings were combined to produce an integrated interpretation. This is a focused narrative review rather than a systematic review of all available studies.

IV. COMPARATIVE LITERATURE ANALYSIS

A. Characteristics and Factors

The reviewed studies collectively indicate that slow learners may need more time, repetition, guidance, and practice than other students. Common challenges include difficulty understanding complex or abstract concepts, slow processing and response, memory and retention difficulties, short attention span, reasoning difficulties, problems completing tasks, low confidence, lack of motivation, and emotional sensitivity.

Thiyagarajan identifies slower reaction, preference for simple tasks, poor self-image, difficulty with complex situations, and emotional sensitivity among relevant characteristics [2]. These challenges should be interpreted in context because learning may also be affected by health, absenteeism, home conditions, overcrowded classrooms, limited learning resources, anxiety, low confidence, unsuitable teaching methods, and insufficient individual support.

Chauhan emphasizes cognitive, memory, attention, and communication-related needs [1]. Korikana highlights the importance of educational opportunity, counselling, motivation, and assessment of individual needs [3]. Imran et al. add the importance of emotional, social, family, school, and inclusive learning factors in early intervention [4].

B. Identification and Assessment

Early identification allows teachers and parents to recognize learning difficulties and begin support before academic challenges become more serious. The reviewed literature identifies teacher observation, classroom performance, achievement tests, case studies, personality information, parent-teacher interaction, and continuous progress monitoring as useful sources of information.

Identification should use multiple sources rather than depend only on examination marks. Teachers can observe attention, response time, participation, understanding of instructions, task completion, reading and writing performance, memory, and peer interaction. Parents can contribute information about learning behaviour at home, interests, emotional responses, health, and developmental history. Imran et al. particularly emphasize early identification and intervention [4].

C. Educational and Remedial Strategies

The reviewed literature consistently supports individualized, flexible, and structured instruction. Effective strategies include step-by-step teaching, additional time, repetition, revision, guided practice, small-group instruction, one-to-one assistance, activity-based learning, practical examples, worksheets, games, stories, audio-visual resources, peer tutoring, and remedial teaching.

Thiyagarajan specifically recommends guided instruction, repeated practice, extra time, adapted materials, activity-based learning, and audio-visual resources [2]. Chauhan discusses remedial education, flexible teaching, peer support, and computer-assisted instruction [1]. These strategies should be selected according to the learner's pace, strengths, and areas of difficulty rather than used as a single standard programme.

Table I: Comparative Synthesis of the Reviewed Literature

Aspect	Main combined finding
Characteristics	Difficulties in pace, memory, attention, reasoning, communication, academic tasks, and emotional adjustment.
Factors	Personal, health, emotional, environmental, family, and educational conditions can influence learning.
Identification	Observation, tests, case studies, parent-teacher interaction, and progress monitoring.

Educational support	Individualized, differentiated, structured, and remedial instruction.
Learning methods	Repetition, guided practice, activity-based learning, practical examples, audio-visual resources, and peer tutoring.
Motivation	Positive reinforcement, appreciation, counselling, and realistic expectations.
Stakeholders	Teachers, parents, peers, and schools share responsibility for support.
Technology	Computer-assisted and audio-visual learning may help but require stronger evaluation.

V. DISCUSSION

The reviewed literature shows that effective support for slow learners requires a learner-centred approach rather than a uniform instructional model. Conventional classrooms often proceed at a common pace, but slow learners may need smaller learning steps, repeated exposure, additional response time, guided practice, and more frequent feedback.

Early identification has value only when it leads to action. Identification should not be used merely to label a learner. It should guide an educational response, such as adapted instruction, remedial teaching, counselling, peer assistance, parent communication, or referral for further assessment. Early support may reduce repeated academic failure and protect learner confidence.

Academic intervention should be combined with emotional support. Low confidence, anxiety, poor self-image, and negative peer experiences can reduce participation. Praise, appreciation, realistic expectations, positive reinforcement, and respectful teacher behaviour can therefore complement remedial instruction. Korikana emphasizes counselling, praise, rewards, appreciation, and motivation as important components of educational opportunity [3].

No single teaching method will suit every learner. Repetition may support retention for one learner, while another may benefit more from practical activities, visual material, peer tutoring, or one-to-one guidance. Continuous monitoring is therefore necessary to determine whether the selected strategy is supporting measurable progress.

Educational technology may provide opportunities for self-paced learning, repeated explanation, visual presentation, practice, and feedback. However, the four reviewed studies do not provide sufficient empirical evidence for a specific technology-based intervention. Technology should complement teacher guidance and human interaction rather than replace them.

VI. RESEARCH GAPS

The literature identifies several important gaps. First, many recommendations for slow learners are descriptive and require stronger empirical evaluation using measurable outcomes such as comprehension, retention, academic achievement, confidence, attendance, and classroom participation.

Second, there is a need for standardized, practical, and context-sensitive identification procedures. Such procedures should distinguish between temporary academic delay, language-related difficulty, inadequate learning opportunity, and persistent learning needs.

Third, longitudinal research is limited. Future studies should examine whether early intervention produces sustained academic, emotional, and social benefits. Comparative studies are also needed to evaluate individual tutoring, small-group instruction, peer tutoring, activity-based learning, and technology-supported approaches.

Finally, educational technology needs systematic evaluation in real classroom settings. Research should assess usability, accessibility, teacher involvement, learner engagement, and outcomes. Studies should also consider cultural context, age, language, school type, class size, socioeconomic background, and access to resources.

VII. CONCLUSION

The reviewed literature demonstrates that slow learners may experience challenges related to learning pace, memory, attention, reasoning, academic performance, communication, motivation, and emotional adjustment. These difficulties do not represent the complete ability or potential of the learner. Performance should be understood in relation to personal, educational, emotional, health-related, and environmental conditions.

The four studies consistently emphasize early identification, individualized instruction, remedial education, repetition, extra time, activity-based learning, positive reinforcement, counselling, peer support, parental involvement, and inclusive learning environments. Effective support requires collaboration among teachers, parents, peers, schools, and, where appropriate, educational specialists.

Overall, a flexible learner-centred approach offers the most appropriate direction for educational practice. Future research should develop standardized identification procedures, evaluate interventions through measurable outcomes, investigate long-term learner progress, and test technology-supported learning in authentic educational settings.

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