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Journal of Contemporary Educational Research and Innovation Vol.7, No.3, pp.125-133., June, 2017 Vol.7, No.3, pp.125-133., June, 2017 ISSN 2249-9636 (Online) O MEASURE PERCEPTION ABOUT LEARNING DISABILITY O MEASURE PERCEPTION ABOUT LEARNING DISABILITY

A SCALE TO MEASURE PERCEPTION ABOUT LEARNING DISABILITY

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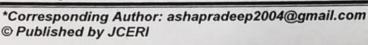
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While there are several scales to measure awareness and knowledge of Learning Disability, in particular, on development of scale that measure to the control of scale that measure that the control of scale that measure the control of scale that the control of sca limited on development of scale that measures teacher's perception about Learning Disability, in particular teachers. The Learning Disability Paractic teachers. The Learning Disability Perception Scale developed as part of this study attempts to go beyond the factual perception of Learning Disability. Date factual perception of Learning Disability Perception Scale developed as part of this study attempts to go beyond in the factual perception of Learning Disability in the of classroom, instructional practices and the condition of of classroom, instructional practices and her role in school and community. The scale was developed with 4 grouped under five dimensions grouped under five dimensions, covering Learning Disability in general, Teacher in preparation for analysis. Teacher in class, Teacher in school and community. The scale was developed instructional practices and her role in school and community. The scale was developed instructional for instructional practices and her role in school and community. The scale was developed instructional practices and her role in school and community. The scale was developed instructional practices and her role in school and community. The scale was developed instructional practices and her role in school and community. The scale was developed in school and community. Teacher in class, Teacher in school and Teacher in community. The tool was standardized using Factor analysis try out on 124 student teacher in M. try out on 124 student teachers in Mathematics optional class from seven B.Ed. colleges in Kerala, India. Out initial 46 items, 20 items more climated and mathematics optional class from seven B.Ed. colleges in the final tool undirection. initial 46 items, 20 items were eliminated after factor analysis and 26 items were retained in the final tool under new five dimensions that enals a new five dimensions that evolved as a result of factor loadings. The overall results indicate that the newly developed is a reliable and validated. scale is a reliable and validated one to measure perception about Learning Disability of student teachers.

Key words: Learning Disability Disability of student teachers. Key words: Learning Disability, Perception, Student Teachers, Teacher Education.

Learning Disability was first noticed and termed so by Dr. Samuel Kirk in early 1960s. Since there as always been in delay as always been in delay as a learning Disability was first noticed and termed so by Dr. Samuel Kirk in early 1960s. topic has always been in debate, first, for arriving at an all-inclusive definition for this condition which highly individualistic in any local research. Introduction highly individualistic in nature and then, looking it as an applied field of special education and research individual difference in the special education in the special educat individual difference in learning and performance. Learning disability involves a variety of learn problems. It affects the neurological system of an individual, hindering the receiving and processing information. This creates trouble in learning new information and skills as well as applying information and skills in new situations. Learning disability has nothing to do with intelligence motivation. The Indian conceptualization of Learning Disability is borrowed from the global perspect India, Learning Disability drew attention of specialists only in the last decade (Karanth, 2003) are research and practice in this area is still in a start. Rehabilitation Council of India, the statuary body, regulates, standardizes and governs all forms of education and rehabilitation services to disindividuals in India, adopts the definition and distinguishing characteristics of Learning Disability give western agencies working in the area.

The features very specific to Indian context are bilingualism and multilingualism. Another is from ideal classroom conditions in terms of infrastructure, access to schooling and teacher-pupil ratio varying socio-economic conditions of the pupils in a classroom add on to the crisis. These contextual factor which are very individualistic to Indian economy, are least researched by the researchers. Placem disabled learners in general classroom poses many challenges to educators and service providers (Hallah & Kauffman, 2000). An important challenge being awareness among teachers about the classroom photos a learning disabled learner and her ability to read these behavioural signs or symptoms for occurrend









Learning Disability in a crowded classroom. The aim here is to draft a scale for student teachers to assess their perception about the condition of Learning Disability in terms of classroom, instructional practices and their role in school and community.

Learning Disability Perception Scale

Before construction of the instrument, the investigator referred the guidelines of the National Joint Committee on Learning Disabilities (1981), a US based National Committee of representatives of thirteen organizations committed to the education and welfare of individuals with Learning Disabilities. Guidelines of the Rehabilitation Council of India (RCI), a Statutory Body established after enacting RCI Act in 1992 was also referred to for the purpose. Apart from this, the investigator reviewed all accessible tools on Learning Disability for the preparation of perception scale. Details of the tools reviewed are given in table 1.

Table - 1
Reviewed tools for the preparation of Learning Disability Perception Scale

MES	or the preparation of	Learning Disability Perception Scale
Tool	Name of the Constructors	Dimensions Assessed
Learning Disabilities Awareness Schedule (LDAS)	Dhananjai Yadav and Vidya Agarwał	Learning Disabilities in general, Listening and understanding, Oral Language, Written Language, Mathematical Problems, Behavior Problems, and Motor Behavior Problems
Learning disabilities diagnostic inventory	Donald D. Hammill, Brian R. Bryant,	Listening, Speaking, Reading, Writing, Mathematics, Reasoning
Checklist for learning disabilities (Advancing milestones.com)	Smith and Strick	Writing, reading, Maths, fine Motor, Related Problems, At school,
Screening checklist for primary school students: English	Ramakrishna Vivekananda University	English
Checklist on Behavioral Characteristics of Students At Risk of Learning Disabilities	Learning Disabilities Association of Canada	Definition, Motor Coordination, Auditory Processing, Orientation, Visual Processing, Attentional, Oral Language, Organization, Written Language, Social Perception,
Learning Needs Screening Tool	Nancie Payne	Learning disability in general
Learning Disabilities Screening Tool	Ministry of Justice, USA	Learning disability in general
Learning Disability Screening Tool	Leicestershire Partnership NHS Trust	Characteristics of Learning Disability
Learning Disability Self- Screening Tool	Deborah Shulman	Characteristics of Learning Disability and Special education services

A critical analysis of the above tools enlightened the investigator towards drafting of tool. By the ferm 'Perception about Learning Disability', investigator here meant going beyond the idea of factual perception of Learning Disability. Rather, how a teacher perceived the condition of Learning Disability in

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terms of classroom, instructional practices and her role in school and community. Based on this theme, dimensions of the instrument were prepared which are discussed as follows:

After analyzing every manner in which a teacher is associated with a learning disabled student, Dimensions of Learning Disability Perception Scale

following five dimensions were identified for the instrument:

- Learning Disability in general
- Teacher in preparation for instruction
- 3. Teacher in class
- 4. Teacher in school

5. Teacher in community

The various items in the tools reviewed by the investigator were thoroughly analyzed with respectively. Each of the dimensions and its respectively. The various items in the tools reviewed by the investigator. Each of the dimensions and the items to the viewpoint of a classroom teacher and modified accordingly. Each of the dimensions and the items under them is discussed separately.

Learning disability in general

This dimension dealt with how the student teacher perceived general characteristics of Learning This dimension dealt with how the student teacher personal internation are given bell Disability in relation to her classroom. Examples for items developed under this dimension are given bell • Learning disability requires more of medical intervention than instructional intervention.

- Use of more than one language in school negatively influences Learning Disability.

Teacher in preparation for instruction

This dimension dealt with how the student teacher perceived Learning Disability when prepar for instruction in a regular classroom. Examples for items developed under this dimension are given below. • Different assignments for learning disabled students may lead to unfair grading in the classroom,

- Learning disabled students may not master higher level cognitive skills.

Teacher in class

This dimension dealt with how the student teacher perceived the presence of a learning disabled student in her classroom with respect to her efficacy. Examples for items developed under this dimen are given below:

- It is difficult to identify Learning Disability in classroom.
- Teacher is accountable for the failure of learning disabled student in the class.

Teacher in school

This dimension dealt with how student teacher perceived schooling of learning disabled students Examples for items developed under this dimension are given below:

- Nurturing learning disabled students in regular school may be costly affair.
- Special teacher's support is unavoidable in handling learning disabled students.

Teacher in community

This dimension dealt with how student teacher perceived the presence of learning disabled students in society. Examples for items developed under this dimension are given below:

- Children with Learning Disability are burden for the society.
- Not much can be done by society for rehabilitation of learning disabled children.

The draft scale was prepared with the five dimensions identified and various items under them. The initial draft contained 55 items. After the preparation of draft, it was subjected to multi level discussion including academicians, research scholars and experts from Learning Disability Education Institutes.

Table - 3
Rotated Component Matrix for Factor Loadings

Rotated Component Matrix for Factor Loa	dings				-		
Items in Scale		Component					
	1	2	3	4	5		
Negligence of Learning Disability in students may result in unsuccessful schooling	.663	1.7					
Early intervention programmes for learning disabled children can reduce their problems	.625						
Parents can provide important inputs to identify learning disabled students	.485						
Collaborative effort of subject teachers may result in optimum school assessment of learning disabled student	.483						
Knowing the family background of learning disabled students provides much information	.436						
Preparing varying assignments for learning disabled students will be a challenging task for the teacher							
Technology in classroom can support the teacher in handling learning disabled students							
Learning disabled students require supportive education and not special education							
It is difficult for regular teacher to handle learning disabled students in classroom		616					
Normal children may consider learning disabled students as a hindrance to their classroom learning process		575					
Learning disabled students may not be accepted as normal by society		.563					
Children with Learning Disability are burden for the society		523					
Teacher's attitude towards learning disabled students influences their peer relations		.468					
Learning disabled students are unenthusiastic towards examination							
Learning disabled students are lazy							
The assignments at the end of the unit in the textbook are suitable for learning disabled students also					41.00		
Special teacher's support is unavoidable in handling learning disabled students							
Presence of learning disabled students in the class may affect flow of teaching			.570				
It is difficult to identify Learning Disability in classroom		A CONTRACTOR	.554				
Knowing entry level behaviour of learning disabled students is essential in planning for instruction	3		.517				
Nurturing learning disabled students in regular school may be costly affair	7		.517				
Teacher observation for strengths and weaknesses of learning disabled students is not feasible in crowded classrooms	3	12.4	.481				

Journal of Contemporary Educational Research and Innovation result of discussion, some items were eliminated, some were added and still some were restructured.

Mode of

Against each statement in the Learning Disability Perception Scale for student teachers, five option were provided (Strongly Agree, Agree, Not Sure, Disagree and Strongly Disagree). Subjects are to put a strongly Disagree and Strongly Disagree and Strongly Disagree are to put a scoring Scoring

The Learning Disability Perception Scale for student teachers consisted of both positive and negative ents. Each of the positive states. statements. Each of the positive statements was scored 5, 4, 3, 2 and 1 for responses Strongly Agree, Agree, Not Sure, Disagree and Strongly Disagree, Disagre Not Sure, Disagree and Strongly Disagree respectively. Whereas the negative statements were scored 1, 2 and 5 for responses Strongly. 4 and 5 for responses Strongly Agree, Agree, Not Sure, Disagree and Strongly Disagree respectively.

Item try out

As part of standardization, the Learning Disability Perception Scale for student teachers was to 124 student teachers in Kerala, India, detail out on 124 student teachers in Mathematics optional class from seven B.Ed. colleges in Kerala, India, details of which are shown in Table 2. of which are shown in Table 2. Permission was obtained from concerned principals of the colleges in regard. The student teachers regard. The student teachers were asked to complete the scale as per the instructions given. There was time limit to complete the scale. time limit to complete the scales. However, students took 15 to 25 minutes to complete the scale.

Table - 2

Details of data collected for the standardization of Learning Disability Perception Scale

Categories re Sample Male	6	5
Male	6	3
emale	118	95
	70	56
	54	44
		56
		44
	Rural Urban vernment	Rural 70 Urban 54 vernment 70

Preparation of Final Scale Factor Analysis technique was used for finalizing items in the scale. The same can be used to establish validity of the tool as factor analysis performs a series of rotations to identify certain factors and loadings of other variables onto each of these factors. The Pearson correlation coefficients between the it were looked into to check for extreme multicollinearity and singularity and also the significance of these coefficients. The correlation coefficients did not indicate singularity in items. This was further appreciated by the determinant of the correlation matrix (0.0000124) which is greater than the necessary value 0.00001. Next, the Kaiser-Meyer-Olkin measure of sample adequacy was 0.528, an acceptable value that indicates the adequacy of sample selected. The Barlett's test of sphericity was found to be significant at level rejecting the null hypothesis that the original correlation matrix is an identity matrix, indicating factor analysis would be appropriate for this data. Initial extraction resulted in 17 factors with Eigen value more than 1 but for convenience in analysis the number of factors was restricted to 5. Principal Compo Analysis was used. The rotated component matrix, in table 3, shows the factor loadings for each variable onto each factor. However, factor loadings less than 0.4 are not displayed.

Not much can be done by society for rehabilitation of learning disabled children	.433		
Labelling learning disabled students may attract instructional support for them	.422		
Teacher is accountable for the failure of learning disabled student in the class			
Different assignments for learning disabled students may lead to unfair grading in the classroom		.647	
Fact-based activities will be suitable for learning disabled students		.552	
Learning disability may affect the normal development of student		515	
Organizing orientation programmes for parents of learning disabled children will only complicate the task of teacher		.425	
Current evaluation system is not adequate to assess learning disabled students in the classroom			
Successful integration of learning disabled students in school is the responsibility of the teacher			
Learning disabled students are less likely to interact with teacher			
Instruction should be individualized for learning disabled students			.609
Learning disabled students may not master higher level cognitive skills			522
Academics is a nightmare for learning disabled students			.516
Learning disabled students can be nurtured in regular classroom			439
Learning disability requires more of medical intervention than instructional intervention			417
Use of more than one language in school negatively influences Learning Disability			
Learning disabled students need changes in the existing curriculum for making learning a joyful event			
Learning disability results in low achievement in all subjects		63-19	
Learning disability is an intellectual failure			

Out of the initial 46 items, 20 items were eliminated after factor analysis and 26 items were retained in the final tool. Detail of the number of items retained and the dimensions that evolved after factor analysis is shown in table 4.

Table 4
Dimension wise Number of Items

Dimensions	Number of items after factor analysis			
Learning Disability: Myths and reality	5			
Learning Disability and successful schooling	5			
Learning Disability and instructional planning	7			
Learning Disability: A burden/hindrance	4			
Need for special attention	5			
Total	26			

The validity of Learning Disability Perception Scale was established. The survey instrument was Validity developed based on reviewing 9 different tools and guidelines of National Joint Committee on Lear Disabilities (1981) and Disa Disabilities (1981) and Rehabilitation Council of India (2011). The dimensions are adopted from these tool hence ensures the validity hence ensures the validity.

The reliability of the survey instrument was established through split half method. The Cronbach Reliability Alpha in reliability of the survey instrument was established through spire. The final Learning Disability B tool nalively Learning Disability Perception Scale developed so is shown below.

	Table - 5	SA	A	N	D	5-
SI.No.	Table - 5 Final Tool: Learning Disability Perception Scale (LDPS)	SA	A		12000	-
1	Negligence of Learning Disability in students may result in unsuccessful					-
•	schooling		_	-		-
2	Early intervention programmes for learning disabled children can reduce					4
	their problems					
3	Collaborative effort of subject teachers may result in optimum school					-
	assessment of learning disabled student					1
4	Parents can provide important inputs to identify learning distribution to					1
5	Knowing the family background of learning disabled students provides					
6	much information for assisting them in classroom It is difficult for regular teacher to handle learning disabled students in					
0	Classroom					-
7	Normal children may consider learning disabled students as a hindrance	4.0				
,	to their classroom learning process					
8	Teacher's attitude towards learning disabled students influences their	10.7			-	-
	peer relations					
9	Learning disabled students may not be accepted as normal by society		-			-
10	Children with Learning Disability are burden for the society	-				-
11	Knowing entry level behaviour of learning disabled students is essential in planning for instruction					(
12	It is difficult to identify Learning Disability in classroom					
13	Presence of learning disabled students in the class may affect flow of teaching					(
14	Labelling learning disabled students may attract instructional support for them					-
15	Nurturing learning disabled students in regular school may be costly affair					
16	Teacher observation for strengths and weaknesses of learning disabled students is not feasible in crowded classrooms					0
	Not much can be done by society for rehabilitation of learning disabled children			-		

18	The state of the s	1		-
19	Learning disability may affect the normal development of student			
	Different assignments for learning disabled students may lead to unfair grading in the classroom			
20	Fact-based activities will be suitable for learning disabled students		-	+
21	Committee will be suitable for learning disabled students			
	Organizing orientation programmes for parents of learning disabled children will only complicate the task of teacher			
22	Learning disability requires more of medical intervention than instructional intervention			
23	Learning disabled students can be nurtured in regular classroom		-	+-
24	Academics is a nightmare for learning disabled students	-		-
25	Loaning disabled students			
	cearning disabled students may not master higher level cognitive skills			
26	Instruction should be individualized for learning disabled students			
25 26	Learning disabled students may not master higher level cognitive skills Instruction should be individualized for learning disabled students			

Strongly Agree (SA), Agree (A), Not Sure (N), Disagree (D) and Strongly Disagree (SD)

Conclusion

Out of the initial 46 items, 20 items were eliminated after factor analysis and 26 items were retained in the final tool under the new five dimensions that evolved as a result of factor loadings. The overall results indicate that the newly developed scale is a reliable and validated one to measure perception about searning Disability of student teachers.

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