

# **Curriculum Framework**

## **Master of Education - Special Education**

### **M.Ed.Spl.Ed.**

#### **Norms, Regulations & Course Content**

**May, 2015**

**Effective from Academic Session 2015-16  
Two Years Duration**



भारतीय पुनर्वास परिषद

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## PREFACE

Rehabilitation Council of India has been running B.Ed and M.Ed Programme in Special Education for more than a decade and half with degrees recognised by the UGC through Notification of July 5, 2014 as well as Notification of May 2009. It has always made efforts to keep parity with NCTE recommended framework so as to facilitate the role requirement of special teachers/special educators for all types of school setting in which children and young persons with disability are educated. As of today this covers inclusive schools, resource room, home- based education as well as special schools through which the educational needs of children with disabilities are being met.

NCTE vide its Notification of December 2014 increased the duration of B.Ed. and M.Ed. level courses to 2 years each beside recommending integrated programme leading to 4 years BA/B.Com/B.Sc degree as well as B.Ed. /M.Ed. (3 years Integrated programme) leading to integrated degrees. It also needs to be mentioned that duration of the education programme through open and distance learning system leading to B.Ed. programme remained unchanged so far by NCTE.

RCI was already in the process of revising its courses leading to diploma and degree in special education during last one year through the Core Committees constituted out of the Expert Committees as mandated by the Act. However, a policy decision was made at the level of the Department of Empowerment of Persons with Disabilities, MoSJ&E as well as RCI through its competent bodies that RCI will also increase the duration of B.Ed./M.Ed. Special Education to two years from the academic session 2015-16. RCI has decided through a consultative process to expand B.Ed. Spl. Ed. (ODL) to Five Semesters (Two Years and Six Months) effective from the academic session 2015-16.

For this purpose RCI has been continuously working since December 2014 to make it a reality and implement the programme w.e.f. the academic session 2015-16. This involves a continuous work of a team at RCI as well as the professionals support drawn through the Expert Committees and the Special Invitees. RCI's competent bodies like General Council (GC) and Executive Council (EC) have been duly informed and have been supportive.

As of today RCI has been able to circulate the framework for the two years B.Ed. Special Education and M.Ed Special Education Programme to all implementing agencies and has shared with larger public through its website. Meeting at RCI for the Core and Common Courses and parallel meetings at all the related National Institutes (AYJNIHH, NIVH, NIMH, NIEPMD) as well as SNDT Women's University, Juhu Campus were conducted during April 2015. Meeting of all the Universities offering these courses through Distance/ODL mode as per MoU signed with RCI has also been accomplished on 7-8 May 2015. Now we are ready to share this comprehensive document for further processing for initiating the session 2015-16 onwards by the respective RCI recognized institutions.

I record appreciation for all the members of the Expert Committees dealing with B.Ed. and M.Ed. courses as well as other Committee Members dealing with diploma level courses. Their inputs have been valuable to this exercise. Members of Expert Committee also shared their views and approval for these finalized courses through emails; RCI appreciates their valuable support and inputs. It is not possible to put all the names here but I am sure everyone will appreciate the sentiments of our gratitude for the members as well as the invitees for this healthy and fruitful partnership (Please see annexure for the list of all such professional partners).

I also take this opportunity to put on record my appreciation for the team at RCI which has worked continuously to make it a reality in such a short time of less than five months to bring it up to this stage. It was a great pleasure to lead the team and work with all the partners. RCI specifically acknowledge Shri Suman Kumar, Dy. Director (Programme) and Shri Sandeep Tambe, Assistant Director (Recognition) for working out the framework and details for B.Ed. and M.Ed. Special Education through regular mode; needless to say RCI could accomplish this task because of team work with support from RCI's Administrative staff beyond office hours and holidays.

I will also like to express my appreciation of the contribution and support of Shri D N Sreenivasappa, Member Secretary till 10.3.2015 and Shri Satish Kumar Srivastava, Member Secretary who have continuously supported this intense and intensive exercise of curriculum development at such a short notice with their administrative support and valuable suggestions from time to time.

Last but not the least I also take this opportunity to express my gratitude to the officials of Dept. of Empowerment of Persons with Disabilities specially Shri Awanish Kumar Awasthi, Joint Secretary who is also a member of RCI General Council and Executive Committee for continuously supporting RCI towards all its commitments and aspirations.

Prof. Sudesh Mukhopadhyay

Chairperson, RCI

18 May, 2015

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# **Master of Education - Special Education (M.Ed.Spl.Ed.) Programme**

## **I. PREAMBLE**

The success of SSA and RTE Act (2009, 2012) in enrolling the most disadvantaged children into schools has resulted in the demand of a professional group of teacher educators, who would in turn prepare effective teachers. The last decade has seen a large number of children with disabilities accessing education and the rights approach promulgated by UNCRPD as well as documents such as NCFTE (2009) have further challenged current M.Ed.Spl.Ed. programme to undergo reform in order to meet the new emerging challenges of teacher educator preparation.

Professional preparation and continuing professional development of teachers needs teacher educators who are themselves professional teachers and who have, through a process of critical scrutiny of theory, critical reflection on practice as well as doing research, deepened their understanding of the environmental factors. These factors circumscribe the context and scope of the core education processes, the nature and structure of knowledge that the learners construct and develop and the dynamics within classroom processes that support or jeopardize learning. The two year M.Ed.Spl.Ed. programme has been conceptualized to answer this need and facilitate deep understanding and critical reflection of the teaching learning processes that support inclusion of children with disabilities via both critical comprehension of theory as well as hands-on reflective practice.

While the revised B.Ed.Spl.Ed. programme will provide a strong initial foundation essential to equip new teachers with the knowledge, competencies, skills, attitudes, awareness and confidence required to teach children in general and special education classrooms, the M.Ed.Spl.Ed. programme aims to prepare professionals with the ability for curriculum and instructional planning, educational management, technology, research and human resource development. They will also be trained to foster collaborative work with key professionals including parents and other professionals as part of a trans-disciplinary team.

The information technology revolution has taken a central role in the classroom and has potential to transform aspects of the curriculum. As the curriculum and instructional designer a teacher with M.Ed.Spl.Ed. degree should have subject knowledge, advanced pedagogical skills, reflective practice and ability to adapt instruction to the needs of each individual as well as to the needs of the group of learners as a whole. The need of the hour is to integrate these with a working knowledge of information and communication technology.

Though disability rehabilitation has grown into a well developed field in India, disability studies and research need impetus. Research enables conversion of knowledge into information that can be used by many. Objectivity and scientific thinking are essential for effective classroom practices as well as for undertaking research projects as part of their teaching career.

The knowledge of research methods and statistics is integral to any Master's level program. A teacher with M.Ed. Spl.Ed. degree may become educational manager or curriculum planner or teacher educator, research remains a common thread in all or any of these roles. The

research component in the M.Ed. Spl.Ed. program produces reflective practitioners, efficient managers and professionals engaged in academic pursuits.

## **II. Aim**

The aim of the M.Ed.Spl.Ed. programme is of preparing teachers as education leaders. The major thrust of the M.Ed.Spl.Ed. programme would be professional preparation of teacher educators who would through this process be equipped with the knowledge and competencies to facilitate and conduct initial preparation and continuing professional development of teachers. They would need to be necessarily equipped with the core competencies and knowledge related to teacher education, its philosophical underpinnings, research methodology, curriculum planning and be aware of best practices in the field of pedagogical interventions and adaptations for children with disabilities.

## **III. Objectives of the program**

The M.Ed.Spl.Ed. program supports three shared philosophical stances underlying long-standing tradition of preparing teacher educators as education leaders. These stances include teaching as inquiry, teaching as curriculum making and teaching for social justice. The objectives of the program are to:

- Assist potential teacher educators to exert leadership in advocating and meeting educational needs of children with disabilities in various settings
- Offer special teacher educators the opportunity to develop specialized capacity for leadership in curriculum, pedagogy and universal design
- Build theoretical knowledge and skills in research methodologies and conducting research in order to enhance education of children with disabilities in all settings.

## **IV. NOMENCLATURE**

Nomenclature of M.Ed. Spl.Ed. programme should be as per UGC Notification of 2009 and 2014 and the new nomenclature will be M.Ed.Spl.Ed. (Name of Specialization in Disability) such as, for Visual Impairment the nomenclature will be M.Ed.Spl.Ed. (VI).

## **V. GENERAL FRAMEWORK OF THE COURSE**

The course is planned on the Choice Based Credit System (CBCS). *According to UGC guidelines one credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical works/field per week.* RCI also recommends practical work for each theory course besides these contact hours including self study, assignments etc. That may involve same number of hours as are the contact hours specified for each course.

The Course structure has three sets of courses

1. Core courses in every semester
2. Elective course which can be chosen from pool of papers in order to;
  - a. Support the discipline of study
  - b. Provide an expanded scope

- c. Exposure to some other discipline/domain (*this will depend on the options available with the implementing university and institution*)
  - d. Nurturing student proficiency/skills
3. Elective Foundation courses are value-based

**RCI will follow the 10-point grading system following letter grades recommended by the UGC<sup>1</sup> as given below:**

**Table 1: Grades and Grade Points**

<b>Letter Grade</b>	<b>Grade Point</b>
O (Outstanding)	10
A+ (Excellent)	9
A (Very Good)	8
B+ (Good)	7
B (Above Average)	6
C (Average)	5
P (Pass)	4
F (Fail)	0
Ab (Absent)	0

- a. A student obtaining Grade F shall be considered fail and will be required to reappear in the examination.
- b. For non-credit courses ‘Satisfactory’ or ‘Unsatisfactory’ shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/ CGPA.
- c. The Universities can decide on the grade or percentage of marks required to pass in a course and also the CGPA required to qualify for a degree taking into consideration the recommendations of the statutory professional councils such as AICTE, MCI, BCI, NCTE, etc.
- d. The statutory requirement for eligibility to enter as assistant professor in colleges and universities in the disciplines of arts, science, commerce, etc., is a minimum average mark of 50% and 55% in relevant postgraduate degree respectively for reserved and general category. Hence, it is recommended that the cut-off marks for grade B shall not be less than 50% and for grade B+, it should not be less than 55% under the absolute grading system. Similarly cut-off marks shall be fixed for grade B and B+ based on the recommendation of the statutory bodies (AICTE, NCTE etc.,) of the relevant disciplines.

***RCI as Statutory Body recommends that the cut-off marks for Grade B shall not be less than 50% and for Grade B+, it should not be less than 55% under the absolute grading***

<sup>1</sup> [http://www.ugc.ac.in/pdfnews/9555132\\_Guidelines.pdf](http://www.ugc.ac.in/pdfnews/9555132_Guidelines.pdf)

*system. Internal assessment for Theory Courses will not exceed 20% and 50% in the practicum wherever applicable.*

### **Duration**

The Course/programme will be of two years with 2 semesters in each year. Each semester will be of 16-18 weeks; 2 weeks in summer and 2 weeks in inter semester break will also be utilized for covering the courses. In this way, the following operational weeks will be available for transacting the course:

Year 1- 16-18 weeks for two semesters + 2 weeks in summer

Year 2- 16-18 weeks for two semesters + 2 weeks in inter-semester breaks

This comes to 64-72 weeks + 6 weeks for field activities/skill development with 40 credits in each year.

## **V. PROGRAMME STRUCTURE**

### **STRUCTURE FOR 4 SEMESTERS (2 YEARS)**

<b>Code</b>	<b>Area</b>	<b>Courses</b>	<b>Credits</b>
A	Core courses	7	28
B	Specialization Courses	4	16
C	Elective Courses	1	04
D	Dissertation	1	16
E	Practical I	2	08
F	Practical II	2	08
<b>Total</b>		<b>17</b>	<b>80</b>

### **Specialisation offered (with specific reference to Area B)**

The M. Ed. Spl. Ed. programme is presently<sup>2</sup> being offered in following specializations:

- I. Hearing Impairment (HI)*
- II. Learning Disability(LD)*
- III. Mental Retardation / Intellectual Disability<sup>3</sup> (MR/ID)*
- IV. Visual Impairment (VI)*

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<sup>2</sup> Course planning for other disability area will be initiated in 2016.

<sup>3</sup> Mental Retardation/ Intellectual Disability is being suggested as per Draft RPWD Bill, 2014.



### AREA A - CORE COURSES

Course Code	Title	Credits	Marks
A1	Developments in Education and Special Education	4	100
A2	Psychology of Development and Learning	4	100
A3	Research Methodology and Statistics	4	100
A4	Curriculum Design & Development	4	100
A5	Inclusive Education	4	100
A6	Perspectives in Teacher Education - In-service & Pre-service	4	100
A7	Educational Evaluation	4	100
<b>Total</b>		<b>28</b>	<b>700</b>

### AREA B - SPECIALIZATION COURSES

Course Code	Title	Credit	Marks
B8	Identification, Assessment and Needs of Children with.....*	4	100
B9	Curriculum And Teaching Strategies for Children with.....*	4	100
B10	Adulthood and Family Issues	4	100
B11	Therapeutics and Assistive Devices**	4	100
<b>Total</b>		<b>16</b>	<b>400</b>

*\*Specific Disability in which M.Ed.Spl.Ed. Programme is being offered.*

*\*\* As per the need of disability different title has been used.*

### AREA C - ELECTIVE COURSES

**Note: Any one to be offered**

Course Code	Title	Credit	Marks
C12	Educational Management	4	100
C13	Educational Technology	4	100
C14	Guidance and Counselling	4	100
<b>Total</b>		<b>4</b>	<b>100</b>

### AREA D - DISSERTATION

Course Code	Title	Credit	Marks
D	Dissertation	16	400

### AREA E - PRACTICAL RELATED TO SPECIFIC DISABILITY

Course Code	Title	Credit	Marks
E1	Related to Specific Disability	4	100
E2		4	100

## AREA F - PRACTICAL II

Course Code	Title	Credit	Marks
F1	Field Engagement / Internship as a Teacher Trainer	4	100
F2		4	100

## SEMESTER-WISE STRUCTURE

### SEMESTER I

COURSE CODE	COURSE TITLE	CREDITS	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS
A1	Developments in Education and Special Education	4	20	80	100
A2	Psychology of Development and Learning	4	20	80	100
B8	Identification, Assessment and Needs of Children with.....	4	20	80	100
B9	Curriculum And Teaching Strategies for Children with.....	4	20	80	100
E1	Practical related to disability	4	100	00	100
<b>TOTAL</b>		<b>20</b>			<b>500</b>

**Engagement with field as part of courses indicated below:**

Sl. No.	Task for the Teacher Educators	Course	Place
1	Assignment / Project	A1	Institute
2	Assignment / Project	A2	Institute
3	Assessment & Identification of Needs	B7 & B8 (Specific disabilities)	Clinic / School, etc

### SEMESTER II

COURSE CODE	COURSE TITLE	CREDITS	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS
A3	Research Methodology and Statistics	4	20	80	100
A4	Curriculum Design & Development	4	20	80	100
A5	Inclusive Education	4	20	80	100
B11	Therapeutics and Assistive Devices	4	20	80	100
E2	Practical related to disability	4	100	00	100
<b>TOTAL</b>		<b>20</b>			<b>500</b>

**Engagement with field as part of courses as indicated below:**

Sl. No.	Task for the Teacher Educators	Course	Place
1	Assignment / Project / Presentation	A3	Institute
2	Assignment / Project / Presentation	A5	Institute/ Special/ Inclusive school
3	Assignment / Project / Presentation	A6	
4	Assignment / Project / Presentation	B10	

**SEMESTER III**

COURSE CODE	COURSE TITLE	CREDITS	INTERNAL MARKS	EXTERNAL MARKS	TOTAL MARKS
A6	Perspectives in Teacher Education – In-service & Pre-service	4	20	80	100
A7	Educational Evaluation	4	20	80	100
B10	Adulthood and Family Issues	4	20	80	100
	<b>ELECTIVE COURSES</b> (Any one):	4	20	80	100
C12	Educational Management				
C13	Educational Technology				
C14	Guidance and Counselling				
D	Dissertation*	2			--
F1	Field Engagement/ Internship as a Teacher Educators	4	100	00	100
	<b>TOTAL</b>	<b>22</b>			<b>500</b>

*\*Marks to be allocated in the fourth semester. Teacher Educators need to select a problem for investigations and provide the necessary supportive and explanatory information as needed. Teacher Educators need to present the synopsis of their work.*

**Engagement with field as part of course as indicated below:**

Sl. No.	Task for the Teacher Educators	Course	Place
1	Assignment/ Project/ Presentation	A4	Institute/School
2	Assignment/ Project/ Presentation	B9	Institute/School
3	Assignment/ Project/ Presentation	C11	Institute/School
4	Assignment/ Project/ Presentation	C12	Institute/ School
5	Assignment/ Project/ Presentation	D13	Institute/ School
6	Assignment/ Project/ Presentation	D14	Institute/ School

## SEMESTER IV

COURSE CODE	COURSE TITLE	CREDITS	INT MARKS	EXT MARKS	TOTAL MARKS
D	Dissertation*	14	200	200	400
F2	Field Engagement / Internship as a Teacher Trainer	4	50	50	100
	<b>TOTAL</b>	<b>18</b>			<b>500</b>

### \* Note: Suggestive/As per the University Regulations

- Complete a review of related research literature in accordance with the research problems.
- Explain and describe the methodology used to conduct the research problem.
- Explain the significance of the results obtained after conducting the research study.
- Summarize the results, explain the corresponding conclusions derived and the subsequent recommendations formulated for further research and practice.
- Provide a list of references, other supportive documentation used for the study.
- Make an oral presentation on the completed work.

### Area E- Practical Related to Disability

1. Elicit information from parents and professionals the relevant information about one child with Specific Disability.
2. Assess the child with Specific Disability, using formal and informal tools and identify the specific learning problems.
3. Write a comprehensive assessment report by analyzing and interpreting the data.
4. Develop an appropriate educational plan (current level, annual goals, short term objectives, methods and material and evaluation).
5. Collaborate with the class teachers and related professional to implement the IEP.
6. Implement IEP for a period of minimum 15 sessions (each session lasting for not less than 45 minutes).
7. Make class visits to support the student when the regular teacher teaches and collaborate with the class teachers.
8. Evaluate the child and write a report.

### Area F- Field Engagement/ Internship as Teacher Educators

Each student trainee is expected to teach 10 lectures in Third & Fourth Semester to student trainees undergoing training in B.Ed.Spl.Ed. level in topics from the curriculum of B.Ed. Spl. Ed.

## VII. ADEQUACY OF THE SPECIAL EDUCATION SYLLABUS

The syllabus prescribed at the M.Ed.Spl.Ed. level is on the basis of minimum requirements and therefore, Universities and Colleges of Education/ Institutes implementing the

M.Ed.Spl.Ed. programme can exercise flexibility in opting the number of papers without compromising on the adequacy and validity of the contents prescribed by the RCI.

## **VIII. ELIGIBILITY FOR INSTITUTIONS TO IMPLEMENT M.ED. SPECIAL EDUCATION PROGRAMME**

Colleges and Universities offering B.Ed. Spl.Ed. programme alone are eligible for offering M.Ed. Spl.Ed. programme.

## **IX. DURATION OF THE COURSE**

The duration of the Course is of four Semesters, that is, two academic years, which can be completed in a maximum of three years from the date of admission to the programme.

## **X. WORKING DAYS AND ATTENDANCE**

The programme will be conducted for **at least 200 working** days each year exclusive of the period of examination and admission. The institution shall work for a minimum of thirty six hours in a week (five or six days), during which physical presence in the institution of all the teachers and student teachers is necessary to ensure their availability for advice, guidance, dialogue and consultation as and when needed.

The minimum attendance of Student-Teachers shall have to be 80% for all course work, 90% for all practicum, and 100% for school internship (5% attendance may be condoned by the head of institution on genuine grounds).

## **XI. ELIGIBILITY FOR ADMISSION**

The admission for the degree of M.Ed. Spl.Ed. degree shall be open to:

- a) A candidate who has successfully passed B.Ed Spl.Ed. with minimum 50% marks in respective disability area from a recognized university or any other degree considered equivalent to B.Ed Spl. Ed. from an affiliating university and/ or teaching department under any University recognized by U.G.C. with RCI registration.
- b) A candidate who has successfully passed the B.Ed. General course and has successfully completed Diploma in Education Special Education in respective disability area recognized by the Rehabilitation Council of India with minimum 50 percent marks in each course.
- c) A candidate having passed PG Diploma<sup>4</sup> (Till Academic session 2014-15)
- d) A candidate with B.Ed. in particular specialization may be allowed for M.Ed. cross disability/ multicategory (as and when offered) but the reverse is not allowed. B.Ed. with multi-category should not be admitted for specialization in a single disability at the M.Ed. level, however; as part of CBCS, these can be admitted to B.Ed. Spl. Edu. Area C Courses

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<sup>4</sup> RCI's Communication of 20/04/15 & 09/10/09 Regarding Equivalence of Programme with B.Ed.Spl.Ed.(See Annexure-1)

and complete the Specialization Courses to qualify for a particular disability. On completion of Area C, these can be admitted to the M.Ed. Spl.Ed in a specific disability.

d) A student with B.A./B.Sc./B.Com. B.Ed.Spl.Ed. (4 years Integrated)

e) **Candidate should have valid RCI registration.**

## **XII. ADMISSION**

Admission Procedure: as per University norms.

## **XIII. PROGRAMME PATTERN**

The programme has been developed on Semester basis. RCI has earmarked 2000 marks for M.Ed.Spl.Ed. programme in view of disability specific specialization.

## **XIV. PASSING MINIMUM**

Minimum 50 % marks or grade 'B' are essential in all courses for passing in the programme (Grace Marks as per University norms).

## **XV. NATURE OF EVALUATION**

Internal & External As per University norms; RCI as Statutory body recommends that the cut-off marks for grade B shall not be less than 50% and for grade B+, it should not be less than 55% under the absolute grading system. Internal assessment for Theory Courses will not exceed 20% and 50% in the practicum wherever applicable.

## **XVI. TRANSITORY REGULATIONS**

Whenever a course or scheme of instruction is changed in a particular year, two more examinations immediately following thereafter shall be conducted according to the old syllabus/ regulations. Candidates not appearing at the examinations or failing in them shall take the examinations subsequently according to the changed syllabus/ regulations/As per University norms.

## **XVII. FACULTY-STUDENT RATIO**

The faculty-student ratio in the area of M.Ed.Spl.Ed. may be 1:10, as per the RCI norms. Considering the infrastructural facilities needed for Special Education and based on the tasks such as supervising practicum, a maximum number of 15 students may be admitted for the M.Ed.Spl.Ed. programme subject to prior permission of the RCI.

## **XVIII. FACULTY NORMS**

The existing faculty norms will be applicable only for the first year of the academic session 2015-16. Revised norms will be applicable from the academic session 2016-17 onwards (second year of the course starting in 2015-16 onwards).

## **XIX. INFRASTRUCTURAL FACILITIES**

It is desirable that institutions have their own building. The building & the plot should ideally be in the name of Institution/ Society/ Trust. In case of rented building, the institution must have a rent agreement for a period extending up to the date of completion of the proposed training program (whenever the training program is proposed to be started). However, in either case, the institution should have minimum 1000 sq. metres area and shall consist of 500 sq. metres built up area for the first proposed training program. For each additional course, 300 sq. metres additional built up area is required. For example, for one course 500 sq. metres built up area, for two courses (500+300) sq. metres and so on.

- Lecture Hall / Classrooms – Minimum 3 rooms accommodating 10 students is the basic requirement (minimum one Additional classroom for each additional programme)
- Multipurpose Hall – 1
- Staff Room – 1
- Resource Room\* – 1( Existing facility of B.Ed. May be used)
- HOD / Principal Room – 1
- Administrative Room – 1
- Library ( with minimum five journal in respective discipline) – 1
- ICT – 1
- Disabled Friendly gender– wise washrooms

*\*Space for Resource Room – it should be large enough to include disability as well as health, physical education, yoga, drama, etc., w.r.t. to children with disabilities.*

## **XX. CERTIFICATION AS A REGISTERED PROFESSIONAL**

It is mandatory as per Section 13 of RCI Act for every teacher of special education to obtain a “Registered Professional Certificate” from the Rehabilitation Council of India to work in the field of special education in India. As continuous professional growth is necessary for the renewal of the certificate, the teachers as well as educators in special education should undergo in-service programme periodically to update their professional knowledge. Amendments, if any, to the regulations of the course will be made periodically by the Rehabilitation Council of India. Any deviation from the above regulations should have the prior approval of the Rehabilitation Council of India.

*The successful students will be registered as Special Educator (Professional). The training institution/organization should ensure that all passed out students are registered with the Council.*

## **XXI. AWARD OF DEGREE**

The affiliating Universities will award degree in **Master of Education Special Education (Area of Specialisation)**. The areas of specialisation provided are Hearing Impairment (HI)/ Learning Disability (LD)/ Mental Retardation (MR)/ Visual Impairment (VI). For example in the area of hearing impairment the degree awarded will be *M.Ed.Spl.Ed. (HI)*. While issuing degree certificate, the Universities should clearly spell out the area of specialization

## **XXII. PRACTICING SCHOOLS**

Special & Inclusive School – Own Special School/ MoU with Special & Inclusive Schools, preferably up to senior secondary school level recognised by State Government for the main disability area and permission to carry out practical in other disability ***with a precaution that school student with disability should not be overstressed.***

*Special Schools for LD and ASD is not an essential condition. Institutions offering more than one programme in Special Education must have own Special School and MoU with other Special/Inclusive School for school engagement and field experience<sup>5</sup>.*

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<sup>5</sup> Not applicable for National Institutes and Universities.



**Course Details**

**AREA A**

**CORE COURSES**

<b>Course Code</b>	<b>Title</b>	<b>Credit</b>	<b>Marks</b>
<b>A1</b>	Developments in Education and Special Education	4	100
<b>A2</b>	Psychology of Development and Learning	4	100
<b>A3</b>	Research Methodology and Statistics	4	100
<b>A4</b>	Curriculum Design & Development	4	100
<b>A5</b>	Inclusive Education	4	100
<b>A6</b>	Perspectives in Teacher Education – In-service & Pre-service	4	100
<b>A7</b>	Educational Evaluation	4	100
<b>Total</b>		<b>28</b>	<b>700</b>

# DEVELOPMENTS IN EDUCATION AND SPECIAL EDUCATION

**Course Code: A 1**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

This course will enable learners to explore education both general and special from historical perspective leading to contemporary India. The course also includes various commissions and policies and issues and trends in the field of education, special education and inclusive education in the national and international contexts covering all aspects of quantity and quality.

## **Objectives**

After completing the course teacher educators will be able to

- *Trace development of general and special education system (PwDs) in India.*
- *Appreciate implications of recommendations made by the various Committees and Commissions for educational (General and Special) developments in India.*
- *Develop insight into the issues and challenges of present day education system.*
- *Understand important quality related issues which need to be taken into account for revision/ development of new education policy.*

## **Unit 1: An Overview of Development of Education System**

- 1.1 Shaping of Education in Pre-Independence India
- 1.2 Shaping of Education in Post-Independence India
- 1.3 Emerging Education in India and in the Global Context
- 1.4 Perspectives of Education for the Persons with Disabilities
- 1.5 Constitutional Provisions and Directive Principles Related to Education and Special Education

## **Unit 2: Issues in Indian Education with Special Reference to Persons with Disabilities**

- 2.1 Accessibility to School, Curriculum & Learning Resources and Attitudinal Barriers
- 2.2 Analysis of the Status of Elementary & Secondary Education for All. (SSA, RMSA,) and Issues for Bridging Gaps
- 2.3 Ensuring Equity Principles across Disabilities, Gender, Caste, Socially Disadvantaged Groups, Marginalized and their Specific Educational Problems
- 2.4 Challenges of Special Education, Inclusion, Systemic Reforms, Provisions and Support System, Public Private Partnership & NGO Initiatives
- 2.5 Support Systems to Meet Diverse Learning Needs- Family, Community, School, Peer, Administrative and Resource Support

### **Unit 3: Policies and Legislations for Education & Special Education Development of Special Education in India**

- 3.1 National Legislations (RCI Act 1992, PWD Act 1995, National Trust Act, Biwako Millennium Framework)
- 3.2 International Legislations for Special Education and International Organisations (UNESCAP, UNCRPD, WHO, UNICEF, NESCO, UNDP, Action Aid, CBM)
- 3.3 National Policies (POA 1992, SSA, RMSA and RUSA) & Government Schemes and Provisions for Persons with Disabilities
- 3.4 Role of Governmental and non-governmental agencies in general and special education
- 3.5 Current issues– Identifications, Labelling, cultural and linguistic diversity & advocacy

### **Unit 4: Quality Issues in Education**

- 4.1 Indicators of quality related to teaching - learning strategies, classroom environment, and Student Assessment
- 4.2 Linking pedagogy with curriculum, contextual constructivism
- 4.3 Ensuring standards in Open & Distance Learning system – Non-formal education, face-to-face vs. Distance mode
- 4.4 Special and Inclusive education - Adopting flexible strategies for the acquisition and use of inputs and monitoring performance in inclusive set up
- 4.5 Quality enhancement in service delivery and community rehabilitation

### **Unit 5: Current Trends and Future Perspective**

- 5.1 Education as a development indicator, and enhancer of development indicators
- 5.2 Education for sustainable development & Right based approach
- 5.3 International curriculum framework in the light of changing priorities and international perspectives
- 5.4 Education for conservation of environment and social change
- 5.5 Education for individual and national development

### **Course Work/ Assignments**

- Trace development of education in India during pre-Independence
- Identify Constitutional provisions ensuring equity and protection of human rights as well as non-discrimination
- Study factors influencing special education as a discipline in India
- Identify quality related issues of your State and suggest strategies to address them

### **Suggested Readings**

- Anand, C.L. et.al. (1993). Teacher and Education in Emerging Indian Society, NCERT, New Delhi.

- Compendium of Schemes (2014). Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment, Govt. of India.
- Education Commission. (1964-1966). Ministry of Education, Government of India, New Delhi.
- Julka, A. (2014). Evaluation of the Implementation of the Scheme IEDSS in India. Department of Education of Groups with Special Needs. NCERT, New Delhi.
- Julka, A., Mukhopadhyay, S., Vyas, S., Sharma, M, Anupriya, C., & Salin, D. (2014). Including Children with Special Needs: Primary Stage. NCERT, New Delhi.
- Kumar, A. (2003). Environmental challenges of the 21<sup>st</sup> century, APH Publishing Corporation, New Delhi.
- Mohanty, J., (1986). School Education in Emerging Society, sterling Publishers. MacMillan, New Delhi.
- National Policy on Education (1986). Ministry of Human Resource Development. Govt. of India, New Delhi.
- National University of Educational Planning and Administration (2014). Education for All Towards Quality with Equity: INDIA. NUEPA, New Delhi.
- Ozial, A.O. (1977). Hand Book of School Administration and Management. Macmillan, London.
- Programme of Action (1992). Ministry of Human Resource Development. Govt. of India, New Delhi.
- Report of Core group on value orientation to education (1992). Planning commission, Govt of India.
- Salamatullah, (1979). Education in Social context, NCERT, New Delhi.
- School Education in India – Present Status and Future Needs (1986). NCERT, New Delhi.
- Seventh All India School Education Survey (2002). NCERT, New Delhi.
- UNDP (1996). Human Development Reports. Oxford University Press. New York.
- UNESCO (2004). Education for All: The Quality Imperative. EFA Global Monitoring Report. Paris.
- UNESCO (2009). Report on Education for sustainable development.
- Varghese, N.V. (1995). School Effects on Achievement: A Study of Government and Private Aided Schools in Kerala. In Kuldip Kumar (Ed.) School effectiveness and learning achievement at primary stage: International perspectives. NCERT. New Delhi.

# PSYCHOLOGY OF DEVELOPMENT AND LEARNING

**Course Code: A 2**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

This course exposes learners to the critical understanding of theoretical perspectives of development and implications for in teaching learning process. Through close observation of children in their natural environments would situate the theoretical knowledge within realistic frames. This course would also be able to equip them to reflect and critique the cognitive and information processing.

## **Objectives**

After completing the course teacher educators will be able to

- *Explain the psychological principles and their application in specific context of education and special education.*
- *Explain the principles and their implication for growth and development.*
- *Critically analyse the process from the point of view of cognitive psychology.*
- *Explain role of motivation in learning, learning processes and theories of personality.*
- *Apply psychological aspects to teaching - learning situations.*

## **Unit 1: Overview Educational Psychology**

- 1.1 Nature and scope of educational psychology
- 1.2 Principles of educational psychology
- 1.3 Methods of Educational Psychology
  - 1.3.1 Observation
  - 1.3.2 Experimental method
  - 1.3.3 Correlational
  - 1.3.4 Clinical
  - 1.3.5 Case Study
- 1.4 Applications of educational psychology to person with disabilities
- 1.5 Contemporary trends

## **Unit 2: Understanding the Development of the Learner**

- 2.1 Concept of Growth and Development
- 2.2 Methods of studying development: Longitudinal, Cross-sectional, Cohort sequence
- 2.3 Physical, social, emotional, moral development, play and language development
- 2.4 Cognitive Development: Piaget, Vygotsky and Kohlberg
- 2.5 Factors affecting Growth and Development

## **Unit 3: Cognition and Information Processing**

- 3.1 Sensation, Perception and Attention
- 3.2 Memory - Nature and types, factors affecting memory

- 3.3 Thinking: Concept Formation, Reasoning, Problem solving
- 3.4 Intelligence: Nature, types, theories and assessment
  - 3.4.1 Creativity
- 3.5 Individual differences and its educational implications for children with disabilities

#### **Unit 4: Motivation, Learning and Personality**

- 4.1 Concept, definition and theories of Motivation
- 4.2 Classical and Contemporary Learning Theories: Behavioural, Cognitive and Social
- 4.3 Concept, definition and principles of personality development
- 4.4 Personality Theories-
  - 4.4.1 Psychoanalytic-Freud & Neo-Freudians, Trait, Humanistic
  - 4.4.2 Assessment of Personality
- 4.5 Implications in teaching-learning with reference to children with disabilities

#### **Unit 5: Psychological Aspects of Teaching**

- 5.1 Individual differences in cognitive and affective areas and its educational Implications
- 5.2 Classroom climate, group dynamics
- 5.3 Peer tutoring, co-operative learning, self-regulated learning
- 5.4 Teacher effectiveness and competence
- 5.5 Guiding children with disabilities

#### **Course Work/ Assignments/ Practicum**

- Plan and conduct a survey about attitudes/ practices regarding one or more of the following: children with disabilities, prenatal development, prenatal hazards, school drop-out, motivation of children
- Conduct an experiment with Piagetian methods of evaluating cognitive development and submit a report
- Analyze any autobiography to explain human development
- Design a behaviour modification plan for a specific child
- Present information on cognitive styles and their effects on learning

#### **Transaction**

Lecture Method, Seminar, Group Discussion, Practical and Field work

#### **Essential readings**

- Agarwal, I.J.C (1994). Essentials of Educational Psychology. Vikas Publishing House, Pvt.Ltd., New Delhi.
- Chatterjee, S.K. (2000). Advanced Educational Psychology. Arunabhasen Books and ALLIED(P) Ltd.,
- Freud, S (1935). A general Introduction to psychoanalysis. Live right, New York.
- Mangal, S.K. (1997). Advanced Educational Psychology. Prentice Hall of India Pvt., Ltd., New Delhi.

- Maslow, A.M. (1954). *Motivation and Personality*. Harper Press, New York.
- Morgan, C.T. (1961). *Introduction to Psychology*. McGraw Hill, New York.
- Mussen, P.H., Conger, J.J., & Kagan, J.(1969). *Child development and personality*. Harper & Row, New York.

### **Suggested Readings**

- Bernard, H.W. (1972). *Psychology of Learning and Teaching*. Mc Grow Hill, New York.
- Chauhan, S.S. (1996). *Advanced Educational Psychology*. Vikas Publishing House, New Delhi.
- DeCecco, J.P., & Crawford, W. (1977). *Psychology of Learning and Instruction*. Prentice Hall, New Delhi.
- Driscoll, P.M. (1994). *Psychology of Learning for Instruction*. Allyn & Becon, Boston.
- Hurlick, E.B. (1992). *Child Development*. Mc Grow Hill, New York.
- Joyce, M., & Others (1992). *Models of Teaching*. Holt Rinehart and Winston, New York. Bruce R. Joyce (Author), Marsha Weil (Author), Emily Calhoun
- Lindgren, H.C. (1976) *Educational Psychology in the Classroom*. John Wiley, New York.
- Mildred, C.R.F. (1978). *Infants, Children: Their Development and Learning*. Gran Hill, New York. (Indian Reprint).
- Panda, K.C. (1997). *Elements of Child Development*. Kalyani Publishers, New Delhi.
- Sharma, P. (1995). *Basics on Development and Growth of a Child*. Reliance Publication, New Delhi.
- Slavin, E.R. (2003). *Educational Psychology: Theory and Practice (7<sup>th</sup> ed.)*. Allyn & Becon, Boston.
- Wilson, A.R., Rockbeck, M.C., & Michael, N.B. (1979). *Psychological Foundations of Learning and Teaching*. Mc Grand Hill, New York.

# RESEARCH METHODOLOGY AND STATISTICS

**Course Code: A 3**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

This course aims to develop within the student a temperament for scientific thinking and research. It orients the student to the methods of conducting research, analysis of data, and enables him/her to prepare research proposal and report subscribing to the standard norms and criteria.

## **Objectives**

After completing the course teacher educators will be able to

- *Develop a conceptual understanding of research, its need and ethical research practices.*
- *Describe the types, methods and process of research.*
- *Apply statistical techniques for analysis of data.*
- *Explain the methods and techniques of qualitative research.*
- *Prepare research proposal and report.*

## **Unit 1: Scientific Knowledge and Research**

- 1.1 Sources and philosophy of knowledge
- 1.2 Scientific thinking and research
- 1.3 Role of theory in research
- 1.4 Need for research in Education and Special Education
- 1.5 Ethics in research

## **Unit 2: Types and Methods of Research**

- 2.1 Types of research- Quantitative, Qualitative, Fundamental, Applied, Action
- 2.2 Methods of Research:
  - Descriptive
  - Correlational
  - Ex-post facto
  - Experimental; Designs (i) Pre-experimental, (ii) Pre-Post designs, (iii) Quasi Experimental design, (iv) single subject design
- 2.3 Variables- Types and threats
- 2.4 Process of research- Selection of problem, Review of literature, Sampling; Types and selection process, Hypothesis
  - Instruments; tests, questionnaire, interview, observation schedule, rating scale
  - Data collection and analysis



- 2.5 Standardization of research instrument- Selection of items, reliability and validity and norms

### **Unit 3: Methods of Quantitative Analysis**

- 3.1 Parametric and non-parametric tests: Concept and difference
- 3.2 Descriptive Statistics:
- Measures of Central Tendency
  - Correlations; Product-moment, Biserial-r, Point-biserial, Phi-coefficient, Regression analysis
- 3.3 Inferential statistics
- Underlying concepts: Sampling error, standard error of mean, confidence level, degrees of freedom, one tail-two tail test, type I and type II errors
  - Student t- test, ANOVA, Ancova, Chi-square, Sign Test, Mann Whitney U test, Kruskal-Wallis test
- 3.4 Computer applications for analysis
- 3.5 Tabulation and graphic representation

### **Unit 4: Qualitative Research Methods and Analysis**

- 4.1 Grounded theory
- 4.2 Ethnography and case study
- 4.3 Narrative/discourse and visual methodologies
- 4.4 Mixed method
- 4.5 Themes, coding and presentation

### **Unit 5: Preparing Research Proposal & Report**

- 5.1 Components of research proposal
- 5.2 Presentation of proposal
- 5.3 Writing of thesis/dissertation
- 5.4 Writing technical paper for publication
- 5.5 Research management

### **Assignments/ Course Work/ Practicum**

- Review a research paper published in refereed journal
- Prepare and present a research proposal
- Review a text book and submit a report
- Analyze a set of data using computer application

### **Transaction**

The research concepts and processes included in this course should be taught using examples from special education and disability studies. The topics from statistics should be explained through variables, hypothesis and type of data collected in selected research studies. Evaluation may be done by asking students to select and apply suitable statistical measure to a given set of data.

## Essential Readings

- Agarwal, A.N. (2002). Quantitative Methods. Vrinda Publishing, New Delhi.
- Best, J.W., & Kahn, J.V. (1996). Research in Education. Prentice-Hall, New Delhi.
- Cohen, J. (1988). Statistical Power Analysis for the Behavioral Sciences. Academic Press, New York.
- Desu, M.M., & Raghavarao, D. (1990) Sample Size Methodology. Academic Press, Boston.
- Dooley, D. (1997). Social Research Methods. Prentice-Hall, New Delhi.
- Gaur, A.S., & Gaur, S. S. (2009). Statistical Methods for Practice and Research: A Guide to Data Analysis Using SPSS. Sage Publishers, New Delhi.
- Greene, S., & Hogan, D. (2005). Researching children's experience. Sage Publication, London.
- Grewal, P.S. (1990). Methods of Statistical Analysis. Sterling Publishers, New Delhi.
- Guptha, S. (2003). Research Methodology and Statistical Techniques. Deep & Deep Publishing, New Delhi.
- Hegde, M. N. (2003). Clinical research in communicative disorders. PRO-ED: Austin, Texas
- Khan, M.S. (2005). Educational research. Ashish Publishing House: New Delhi
- Koul, L. (1996). Methodology of Educational Research. Vikas Publishing House, New Delhi.
- Potti, L.R. (2004). Research Methodology. Yamuna Publications, Thiruvananthapuram.
- Siegel, A., & Castellen, N.J. (1988). Non Parametric statistics for Behavioural Sciences. McGraw-Hill, New York.
- Silverman, D. (2012). Qualitative Research. Sage Publication, London.

## Suggested Readings

- Berg, B.L., & Lune, H. (2011). Qualitative Research Methods for the Social Sciences. Pearson Publication, Boston.
- Bogdan, R. C., & Biklen, S. K. (2007). Qualitative research for education: An introduction to theory and methods (5th ed). Pearson, Boston.
- Lipsey, M.W. (1990). Design Sensitivity: Statistical Power for Experimental Research. Sage Publications, Newbury Park, CA.
- Singh, A. K. (2004). Tests Measurement and Research Methods in Behavioural Science. Tata McGraw-Hill Publishing, New Delhi.

# CURRICULUM DESIGN & DEVELOPMENT

**Course Code: A 4**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

Changes in society constantly demand new knowledge and skills and require the continuous development of our educational system. This course will provide the trainee the foundational know-how and theoretical underpinning of curriculum development from design and implementation to evaluation and an informed and critical understanding about curriculum differentiation

## **Objectives**

After completing the course teacher educators will be able to

- *Define and identify different components of curriculum.*
- *Understand and analyse various approaches to curriculum development.*
- *Explain and demonstrate curriculum differentiation.*

## **Unit 1: Nature of Curriculum**

- 1.1 Definition and scope of curriculum
- 1.2 Bases of Curriculum-philosophical, sociological and psychological
- 1.3 Principles of curriculum transaction
- 1.4 Fundamentals of curriculum development: knowledge based, activity based, skill based and experience based
- 1.5 Historical and contemporary evolution of curriculum

## **Unit 2: Approaches & Types of Curriculum Development**

- 2.1 Developmental Approach
- 2.2 Functional Approach
- 2.3 Eclectic Approach
- 2.4 Ecological Approach
- 2.5 Expanded Core Curriculum
- 2.6 Hidden Curriculum

## **Unit 3: Principles of Curriculum Construction**

- 3.1 Curriculum & Ideology
- 3.2 Curriculum as a Social Construct
- 3.3 Differentiating between Curriculum Design and Curriculum development
- 3.4 Theories of Curriculum Development
- 3.5 Universal Design of Learning for Curriculum Development

## **Unit4: Curriculum Development & Instructional Design**

- 4.1 Differentiation of Curriculum
- 4.2 Pedagogical Theories and curriculum transaction
- 4.3 Material and Instructional Adaptations
- 4.4 Assessment and Evaluation

## **Unit 5: Critical Issues in Curriculum**

- 5.1 Organisation of learning opportunities for diverse needs
- 5.2 Designing integrated and inter-disciplinary learning experiences
- 5.3 Collaborative curriculum
- 5.4 Alignment of curriculum and modes of assessment
- 5.5 Curricular trends

### **Transaction**

Group discussion, lecture-cum-discussion, panel discussion, school visits and teaching observations, individual assignment of lesson planning based on learning needs in the classroom.

### **Course Work/ Practical/ Field Engagement**

- Write a 2000 word essay describing a curriculum in action in an inclusive school
- Adapt any one lesson in collaboration with a regular teacher within a secondary school text book (using one of the approaches to curriculum development) to meet the needs of children with disabilities

### **Essential Readings**

- Aggarwal, D. (2007).Curriculum development: Concept, Methods and Techniques. Book Enclave, New Delhi.
- Alexander, R. J. (2001). Culture and pedagogy: International comparisons in primary education. Oxford and Boston, Blackwell.
- Daniels, H., & Goodland, J. (1979). Curriculum Enquiry the Study of Curriculum Practices. McGraw Hill, New York.
- Daniels, H., & Porter, J. (2011). Educational theories, cultures and learning: A critical perspective. Routledge, London.
- Ornstein, A. C., Pojak, E. F., & Ornstein, S. B. (2006). Contemporary issues in curriculum. Allyn & Bacon, Boston.
- Wiles, J. (2009). Leading Curriculum Development. Corwin Press, New Jersey.
- Wiles, J.W., & Joseph, B. (2006). Curriculum Development: A Guide to Practice. Pearson Publication, London.

## **Suggested Readings**

- CIET(2006). The process of Making National Curriculum Framework-2005: A Video documentary both in Hindi and English, CIET,NCERT, New Delhi.
- Jacobs, H. H. (1997). Mapping the Big Picture: Integrating Curriculum and Assessment K-12 (Professional Development). Association for Supervision & Curriculum Development, Alexandria.
- Westbrook, J., Durrani, N., Brown, R., Orr D., Pryor J, Boddy, J., & Salvi, F. (2013). Pedagogy, Curriculum, Teaching Practices and Teacher Education in Developing Countries. Final Report. Education Rigorous Literature Review. Department for International Development.
- Wiggins, G., & Mc Tighe, J. (2005). Understanding by Design. Association for Supervision and Curriculum Development, Alexandria.
- Wiles, J. W., & Bondi, J. C. (2010). Curriculum Development: A Guide to Practice. Prentice Hall, New Jersey.

# INCLUSIVE EDUCATION

**Course Code: A 5**

**Credits: 04**

**Marks: 100**

**Hours: 60**

## **Introduction**

This course will prepare teacher trainees to develop insights into models, evolution, current issues and strategies for developing inclusive learning environments. This course will promote collaborative skills in the trainees in order to address special learning needs in the classroom.

## **Objectives**

After completing the course teacher educators will be able to

- *Explain the philosophical, sociological and rights perspective of inclusive education.*
- *Develop skills in using a wide range of tools, instructional strategies, and social supports to assist students with disabilities learn effectively.*
- *Develop the skills associated with inter-personal relationships, managing relations in educational settings, problem-solving in educational settings, leadership and working in teams to promote inclusion.*

## **Unit 1: Perspectives in Inclusive Education**

- 1.1 Historical perspective of Inclusive education globally and in India
- 1.2 Approaches to disability and service delivery models
- 1.3 Principles of inclusive education
- 1.4 Key debates in special and inclusive education
- 1.5 Research evidence on efficacy and best practices associated with inclusive education

## **Unit 2: Covenants and Policies Promoting Inclusive Education- A Critique**

- 2.1 International Declarations: Universal Declaration of Human Rights (1948), World Declaration for Education for All (1990)
- 2.2 International Conventions: Convention Against Discrimination (1960), United Nations Convention on Rights of a Child (1989), United Nations Convention of Rights of Persons with Disabilities (UNCRPD) (2006), Incheon Strategy (2012)
- 2.3 International Frameworks: Salamanca Framework (1994)
- 2.4 National Commissions & Policies: Kothari Commission (1964), National Education Policy (1968), National Policy on Education (1986), Revised National Policy of Education (1992), National Curricular Framework (2005), National Policy for Persons with Disabilities (2006)
- 2.5 National Acts & Programs: IEDC (1974), RCI Act (1992), PWD Act (1995), National Trust Act (1999), SSA (2000), RTE (2009) and amendment 2012, RMSA (2009), IEDSS (2013)

### **Unit 3: Building Inclusive Schools**

- 3.1 Identifying barriers to Inclusion- Attitudinal, Systemic and Structural
- 3.2 Ensuring Physical, Academic and Social Access
- 3.3 Leadership and Teachers as Change Agents
- 3.4 Assistive Technology
- 3.5 Whole School Development

### **Unit 4: Building Inclusive Learning Environments**

- 4.1 Classroom Management
- 4.2 Effective Communication
- 4.3 Promoting Positive Behaviour
- 4.4 Reflective Teaching
- 4.5 Peer mediated instruction: Peer tutoring, Co-operative learning

### **Unit 5: Planning for Including Diverse Learning Needs**

- 5.1 Universal design of learning
- 5.2 Adaptations and accommodations for sensory impairments
- 5.3 Adaptations and accommodations for children with multiple disabilities
- 5.4 Adaptations and accommodations for children with neuro-developmental disabilities
- 5.5 Adaptations and accommodations for children with intellectual impairment
- 5.6 Adaptations and accommodations for gifted children

### **Unit 6: Collaborations**

- 6.1 Models of collaboration
- 6.2 Working with Parents
- 6.3 Managing Conflict
- 6.4 Co-teaching
- 6.5 Mentoring and Coaching

### **Transaction**

Interactive course with discussion as well as field work to get first-hand experience of co-teaching mainstream classrooms with children with disability

### **Course Work/ Practical/ Field Engagement**

- Study the impact of UNCRPD on RTE's provisions for children with disabilities
- Review of research in any one area in inclusive education and highlight its implications for the practitioner
- Develop a differentiated lesson with content, process, and products adapted to suit a specific learner
- Implement the lesson plan above in a regular school using one of the models of collaborative teaching. Write your reflections in a journal

## Essential Readings

- Clough, P., & Corbett, J. (2000). *Theories of Inclusive Education*. Paul Chapman Publishing, London.
- Constitution of India (1950). Article 41, Ministry of Law and Justice, New Delhi.
- Jha, M. M. (2002). *School Without Walls: Inclusive Education for All*. Oxford, Heinemann.
- Jorgensen, C. M., Mc Sheehan, M., & Sonnenmeier, R. M. (2009). *Essential best practices in inclusive school*. Institute on Disability/UCE, University of New Hampshire
- Mukhopadhyay, S., & Mani, M. N. G. (2002). *Education of Children with Special Needs*, in Govinda, R. (2002) (Ed) *India Education Report*. Oxford University Press, New Delhi.
- Peterson, M., & Hittie, M. (2009). *Inclusive teaching: The journey towards creating effective schools for all learners*. Merrill, New Jersey.
- Skidmore, D. (2004) *Inclusion: The Dynamic of School Development*, Open University Press, Buckingham.
- Villa, R. A., & Thousand, J. S. (2005) *Creating An Inclusive School*, Association for Supervision and Curriculum Development. ASCD, Alexandria.
- Wade, S. E. (2000). *Inclusive Education: A Casebook and Readings for Prospective and Practicing Teachers*. Lawrence Erlbaum Associates, New Jersey.

## Suggested Readings

- Berry, B., Daughtrey, A., & Weider, A. (2010). *Teacher leadership: Leading the way to effective teaching and learning*. Centre for Teaching Quality, Washington, DC.
- Carr, J. F., Herman, N., & Harris, D. E. (2005) *Creating Dynamic Schools through Mentoring, Coaching, and Collaboration*. ASCD, Alexandria.
- Carter, E. W., Cushing, L. S., & Kennedy, C. H. (2009). *Peer support strategies: Improving all students' social lives and learning*. Paul H. Brookes, Baltimore.
- Kunc, N. (2000). *Rediscovering the right to belong*. In R. A. Villa & J. Thousand (Eds.), *Restructuring for caring and effective education: Piecing the puzzle together* Brookes. Baltimore.
- Mastropieri, M. A., & Scruggs, T. E. (2006). *The inclusive classroom: Strategies for effective instruction*. Prentice-Hall, New Jersey.
- Odom, S. L., McConnell, S. R., Ostrosky, M., Peterson, C., Skellenger, A., Spicuzza, R., Chandler, L. K., McEvoy, C. A., & Favazza, P. C. (1993). *Play time/social time: Organizing your classroom to build interaction skills*. Communication Skill Builders, Tucson, AZ.
- UNESCO (1994). *The Salamanca statement and framework for action on special needs education*. Paris.



# **PERSPECTIVES IN TEACHER EDUCATION - IN-SERVICE AND PRE-SERVICE**

**Course Code: A 6**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

This course intends to orient the student about the aims and purpose of teacher education and critically reflect on its' status in India with specific reference to the developments in the field of special and inclusive education as well as identify the issues and challenges. A critical understanding of pre-service and in-service education of teachers in special and inclusive education would promote skills of designing and evaluating curriculum as well as capacities in transacting teacher training programs with essential inputs.

## **Objectives**

After completing the course teacher educators will be able to

- *Gain insight and understand development of Teacher Education with reference to education of children with disabilities.*
- *Reflect on issues and problems related with teacher preparation for education of children with disabilities.*
- *Familiar with responsibilities of different organisations in preparation of competent teachers and critically examine it.*
- *Appreciate importance of in-service programmes and develop capacity to plan and execute it as per specific need and purpose.*
- *Appraise the existing teacher education curriculum and its relevance, issues and challenges.*

## **Unit 1: Understanding Teacher Education (TE)**

- 1.1 Concept, Aims and Objectives of TE
- 1.2 Significance of TE in India
- 1.3 Types of TE: Pre-service and In-service; Continued development of Teacher as a Professional
- 1.4 Structure of TE in India and Organizations/Agencies involved
- 1.5 Factors influencing the practices in TE and quality

## **Unit 2: TE and Education of Children with Disabilities**

- 2.1 Early Initiatives in preparing teachers for children with disabilities in India
- 2.2 Establishment of various national institutes and development of TE in special education
- 2.3 Establishment of RCI as a statutory body in standardizing and promoting TE in special education

- 2.4 Changes in School Education for Children with Disabilities and its Impact on TE
- 2.5 Paradigm shift from Segregation to Inclusion Impacting TE

### **Unit 3: Pre-service TE in Education of Children with Disabilities**

- 3.1 Changing scenario of teacher education curriculum and evolving priorities
- 3.2 Characteristics of TE framework developed by RCI, structure and organisation of different components of TE Curriculum
- 3.3 Components of Pre-service TE: overview of courses at different levels, weight age of course work and evaluation
- 3.4 Various components of TE curriculum and their transactional modalities
- 3.5 Organisation, transaction and evaluation of different components of TE curriculum including school based practicum, and internship

### **Unit 4: Continued Teacher Development Program**

- 4.1 Need and modalities for continuing professional development of a teacher (Continuing Rehabilitation Education (CRE), Workshop, Seminar, Conferences, Projects, Exchange programmes) and their advantages and limitations
- 4.2 Structures and models of in-service teacher education- sub-district, district, State, regional and national level organisations and their role, voluntary efforts
- 4.3 Modes (face to face, distance modes, on line and mixed modes) and models (induction, one shot, recurrent, cascade, multi-site, school based, and course work) of in-service TE
- 4.4 Planning an in-service TE programme- preliminary considerations (purpose, duration, size of group, activities and budget)
- 4.5 Designing and organizing an in-service TE programme- assessment of training needs, identifying essential components, guidelines

### **Unit 5: Issues and Challenges in TE for Education of Children with Disabilities**

- 5.1 Teacher motivation and working conditions; opportunities for professional development
- 5.2 Organizing TE: Conventional versus ODL
- 5.3 Collaboration/linkage between MHRD/ NCTE and MSJE/ RCI
- 5.4 Single disability versus cross disability approach in TE and addressing disability issues in general education curriculum
- 5.5 ICT and TE

### **Course Work/ Practical/ Field Engagement**

- Prepare a checklist/schedule to collect information about curriculum transaction either in Diploma or B.Ed. in Special Education Courses in any Training Institute. Take interview of at least 10 student teachers and analyse the data to suggest improvement in quality of training
- Prepare a checklist/schedule to collect information from employer about competency of passed out student teachers. Take interview of at least 5 principals of schools

having children with disabilities and analyse the data to suggest improvement in quality of training and the need for in-service training

### **Suggested Readings**

- NCTE (1998). Policy Perspectives in Teacher Education: Critique and Documentation, New Delhi.
- Saxena, N.R., Mishra, B.K., & Mohanty, R.K. (1998). Teacher Education, R-Lall Book Depot, Meerut.
- Sharma, R.A. (2002). Teacher Education. International Publication House, Meerut.

# EDUCATIONAL EVALUATION

**Course Code: A 7**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

Education is a continuous process which begins with evaluation and ends with evaluation. This course intends to orient the learners with the foundation, scope and practices followed in educational evaluation and undertaking adaptations to suit the needs of children with disabilities. The course also takes the learners one step ahead by building an understanding of the contemporary evaluation practices as well as programme evaluation.

## **Objectives**

After completing the course teacher educators will be able to

- *Explain the key concepts of evaluation and describe the developments in evaluation.*
- *Describe the scope of evaluation in education.*
- *Describe the use of evaluation as an effective tool in teaching-learning process.*
- *Describe the ways & means of evaluation of programmes.*
- *Explain the current trends in evaluation.*

## **Unit 1: Foundations in Evaluation**

- 1.1 Concept of testing, measurement, assessment and evaluation
- 1.2 Difference between investigation, auditing, monitoring & evaluation
- 1.3 Principles of Evaluation
- 1.4 Areas of Evaluation
- 1.5 The evolution of the evaluation function; i) Measurement/ comparison, Transparency/ accountability, ii) Understanding/ learning/ decision making/ positive accountability

## **Unit 2: Scope of Evaluation**

- 2.1 Problem-solving and decision-making
- 2.2 Positive accountability and excellence in education
- 2.3 Knowledge construction and capacity building of learners
- 2.4 Organizational learning and change, and strategic planning
- 2.5 Advocacy & communication

## **Unit 3: Teaching-learning and Evaluation**

- 3.1 Evaluation of learning, for learning and in learning- Contexts, Need & Nature
- 3.2 Tools for evaluation and process of standardization
- 3.3 Equity & fairness in evaluation including adaptations & Accommodations
- 3.4 Report writing: Format, Content & Mechanics
- 3.5 Mastery Level Learning

#### **Unit 4: Programme Evaluation & Review**

- 4.1 Concept, need, goals and tools
- 4.2 Evaluation of instructional programmes
- 4.3 Techniques of programme evaluation
- 4.4 Reliability, validity and sensitivity in programme evaluation
- 4.5 Reviewing outcomes

#### **Unit 5: Current Trends in Evaluation**

- 5.1 Knowledge based evaluation
- 5.2 Performance Based Evaluation: Role play, Concept maps
- 5.3 Authentic Evaluation: Interviews, Writing samples, Projects, Exhibitions, Reflective Journals
- 5.4 Self evaluation: Rubrics & Rating scales
- 5.5 Exams: Online, On-demand, Take-home Power Tests & Open book

#### **Transaction & Evaluation**

- Lecture-cum-demonstration, Workshops on developing tools for content and programme evaluation
- Assignments, Presentations and Class Tests

#### **Practicum**

- Observe and prepare a report on evaluation practices at any two levels in (i) a Mainstream and (ii) a Special school. Critically analyze the evaluation practices.
- Develop a format for self evaluation for teachers in special or mainstream.
- Develop tools one each for Knowledge based, Performance based & Authentic evaluation for children with disabilities studying in a class or a subject of your choice.

#### **Essential Readings**

- Airasian, P.W. (1991). Classroom Assessment. Mc Graw-Hill, New York.
- American Educational Research Association, American Psychological Association, and National Council on Measurement and Education. (1999). Standards for educational and psychological testing. Washington, DC: American Educational Research Association.
- American Federation of Teachers, National Council on Measurement in Education, and the National Education Association. (1990). Standards for teacher competence in educational assessment of students. Washington, DC: Author.
- Gipps, (1996). Assessment for learning. In Little, A. and Wolf, A. (eds) Assessment in transition: Learning, monitoring and selection an international perspective. Oxford Pergamon Press, London.
- Gronlund, N.E., & Linn, R. ( 1990). Measurement and evaluation in teaching (6<sup>th</sup> Edition). Macmillan, New York.

- Hamayan, (1995). Approaches to alternative assessment. "Annual Review of Applied Linguistics," 15, 212-226.
- Headington (2003). Monitoring, Assessment, Recording<sup>s</sup> Reporting & Accountability. II-Ed, David Fulton Pub. , London.
- Hibbard, K. M. and others. (1996). A teacher's guide to performance-based learning and assessment. Alexandria, VA: Association for Supervision and Curriculum Development.
- Mathew, S. (2005). Evaluation: curricular strategies and adaptations for children with hearing impairment. Kanishka: New Delhi.
- Mathew, S. & Mishra, A. (2010). Knowledge based evaluation of students with hearing impairment. Journal of NCED, 2(1), 26-33.
- Mathew, S. (2010). Educational Evaluation .Curriculum and teaching strategies for CWHI. MED SEDE (HI) Manual, IGNOU, New Delhi.
- Mehrens, W. A., & Lehmann, I. J. (1991). Measurement and evaluation in psychology (IVED). Harcourt Brace College Publishers, New York.
- NSW syllabuses: Assessment for, as and of Learning. Retrieved from [syllabus.bos.nsw.edu.au/support.../assessment-for-as-and-of-learning](http://syllabus.bos.nsw.edu.au/support.../assessment-for-as-and-of-learning) on 10.4.2015
- Programme evaluation and review technique. Retrieved from <http://www.inc.com/encyclopedia/program-evaluation-and-review-technique-pert.html> on 10.4.2015
- School self-evaluation. <http://www.education.ie/en/Schools-Colleges/Services/Quality-Assurance/SSE-Primary-and-Post-Primary/School-Self-Evaluation.html> on 10.4.2015
- School self-evaluation. Retrieved from [http://schoolself-evaluation.ie/post-primary/index.php/what-school-self-evaluation/?doing\\_wp\\_cron=1429505616.9318289756774902343750](http://schoolself-evaluation.ie/post-primary/index.php/what-school-self-evaluation/?doing_wp_cron=1429505616.9318289756774902343750) on 10.4.2015
- UNICEF (2006). New trends in development evaluation. Retrieved from [http://www.unicef.org/ceecis/New\\_trends\\_Dev\\_EVALuation.pdf](http://www.unicef.org/ceecis/New_trends_Dev_EVALuation.pdf) on 16.4.2015
- Wiggins, G. (1993) Assessing students performance. San Francisco: Jossey-Bass.

### **Suggested Readings**

- Braden, J. (2001). The clinical assessment of deaf people's cognitive abilities. In Clark, M. D.; Marschark, M., & Kretchmer, M. (Eds.). Context, cognition and deafness, Galludet University press, Washington. Pg.14-37.
- Elliot, S.N., Kratochwill, T. R., & Gilbertson, A. G. (1998). The Assessment Accommodation Checklist: Who, What, Where, When, Why and Who? Teaching Exceptional Children, 31(2), 10 –14.
- Eriksen, S.C. (1969). The teacher made test. Memo to the Faculty, no.35. Ann Arbor: Centre for Research on learning and teaching, University of Michigan.

- Fernandez, H. (2008). Knowledge based achievement of students with hearing impairment on different types of assessment. Unpublished Master Disseratation, University of Mumbai.
- Frechtling, J.A. (1991). Performance assessment: Moonstruck or the real thing? *Educational Measurement: Issues and Practices*, 10(4), 23-25.
- Jacob, L. C., Chase, C. N. (1992). *Developing and using tests effectively: A guide for faculty*. Josse-Bass Publishers, San Francisco.
- Junaid, I.M., & Muhammad, D. N. (2002). Assessing nomadic children's learning achievement: what tools and which strategies? Retrieved from curriculum.pgwc.gov.za/resource\_files/22153409\_16.doc
- Linn. R.L, Baker, E. L., & Dunbar, S. B. (1991). Complex Performance based assessment. *Educational Researcher*, 20(8), 15-21.
- Mathew, S. (2010). Impact of Knowledge Based Evaluation on Achievement of Students with Hearing Impairment: An Experimental Study. A PhD Thesis (Unpublished), MJP Rohilkhand University.
- Meyer, C.A. (1992) .What is the difference between Authentic and Performance assessment? *Educational Leadership*,49(8),39-40
- Mountain, A. (2005). Science assessment of deaf students: Considerations and implications of state accountability. *Measurements*. MSSE Masters Project. Submitted to the National Technical Institute for the Deaf, Rochester Institute of Technology, New York.
- Musselman, C.R., Lindsey. P. H., & Wilson A. K. (1988). An evaluation of recent trends in preschool programming for hearing impaired children. *Journal of Speech and Hearing Disorders*, 53, 71-88.
- Nair, P. (2005). A study of the effectiveness of individualized instructional material on mastery of mathematical concepts related to time in children with hearing impairment. Unpublished Master Dissertation, University of Mumbai.
- Stiggins, R.J. (1994). *Student-Centered classroom assessment*. MacMillan, New York
- Tannenbaum, J.E. (1996). *Practical Ideas on Alternative Assessment for ESL Students*. ERIC Clearinghouse on Languages and Linguistics Washington DC, ERIC Identifier ED395500, 1-6.

## AREA B

### SPECIALIZATION COURSES

<b>Course Code</b>	<b>Title</b>	<b>Credit</b>	<b>Marks</b>
B8	Identification, Assessment and Needs of Children with .....*	4	100
B9	Curriculum and Teaching Strategies of Children with .....*	4	100
B10	Adulthood and Family Issues	4	100
B11	Therapeutics and Assistive Devices **	4	100

*\*Specific Disability in which M.Ed.Spl.Ed. Programme is being offered.*

*\*\* As per the need of disability different title has been used.*



# **Disability Specialization**

## **HEARING IMPAIRMENT**

# IDENTIFICATION, ASSESSMENT AND NEEDS OF INDIVIDUALS WITH HEARING IMPAIRMENT

**Course Code: B 8**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

The course aims to develop an understanding of applications of various Audiological, speech, language and communication assessments for recommendations of various educational practices. The said course would also help learners to appreciate the role of professionals to address the needs of the child with hearing impairment in a holistic manner using team approach.

## **Objectives**

After completing the course teacher educators will be able to

- *Explain audiological evaluation and reflect its application in education of CWHI.*
- *Describe speech of children and reflect its use in evaluation of CWHI.*
- *Explain various issues related to assessment of language and communication of CWHI.*
- *Explain the practices in educational assessment including the setting up of an educational assessment centre.*
- *Describe the importance of team approach and reflect on their role in assessment and identification of needs.*

## **Unit 1: Audiological Assessment, Identification and Addressing Needs**

- 1.1 Overview and need of various audiological assessment
- 1.2 Choice and selection of audiological tests according to age and functional abilities of the child
- 1.3 Overview of audiological assessment of children with additional/ associated disabilities
- 1.4 Selection of modality / method of management (auditory, speech reading vs manual communication) based on aided performance (aided audiogram & speech identification)
- 1.5 Recommendation of educational set-up (special, partial integration vs inclusive education) based on aided performance (aided audiogram & speech identification) as one of the factors

## **Unit 2: Speech Assessment, Identification and Addressing Needs**

- 2.1 Overview of acoustics of speech; Classification of speech sounds based on major acoustic cues
- 2.2 Compare and contrast speech development in typical developing children and CWHI

- 2.3 Phonological errors as a function of audiogram configuration (flat, gradually sloping and steeply sloping) and degree of hearing loss
- 2.4 Selection of appropriate strategies, material, and equipment for teaching speech
- 2.5 Need for use of regional language based speech assessment tests

### **Unit 3: Language & Communication Assessment, Identification and Addressing Needs**

- 3.1 Parameters of selecting medium of instruction for CWHI: Language/s used at home, school & society
- 3.2 Language assessment of the deaf: Challenges and concerns (standardized versus teacher made tools; Setting norms of children 'with' versus 'without' disability; modality dependent nature of language; measuring receptive language; identifying measurable indicators)
- 3.3 Biological foundations and research in early language experiences in the past two decades: From input to uptake
- 3.4 Processing sign languages in early years: Neural reorganization; Access to age appropriate language; Ease of intake; Universal grammar; Modality dependent versus modality independent components
- 3.5 Studying language assessment component in ICF; Recommendations related to language assessment reflecting in National Curriculum Framework (NCF)

### **Unit 4: Educational Assessment, Identification and Addressing Needs**

- 4.1 Concept & principles of Educational Assessment
- 4.2 Scope & priorities in educational assessment
- 4.3 Methods, Techniques & tools for educational assessment & Reporting: Formal & Informal
- 4.4 Outcomes of educational assessment: Identification, addressing educational needs; linking with pedagogical decisions
- 4.5 Setting up of an educational assessment clinic/centre: Need & Requirements (essentials & Desirables)

### **Unit 5: Team Approach in Assessment, Identification & Assessing Needs**

- 5.1 Team Approach: concept & types (Multidisciplinary, Interdisciplinary and Trans-disciplinary);
- 5.2 Role of various stakeholders: professionals, personnel, parent and the child;
- 5.3 Constitution of team with respect to CWHI: Considerations on child's age, severity and associated conditions;
- 5.4 Team's role before, during and after assessment; Identifying and addressing the need and planning IEP / IFSP
- 5.5 Team's role in outcome measures: Periodic assessment and evaluation; review of performance against previously set goals

### **Course Work/ Practical/ Field Engagement**

- Compiling a set of 10 aided audiograms and aided speech identification scores for selection of modality, method of communication and educational set-up.
- Review two IEP records and reflect upon the role responsibilities and team approach
- Reflections on changing trends in language assessment beyond syntax (semantics & pragmatics)
- Compiling of recently developed speech tests in India and critically analysing them
- Visit an educational assessment clinic / centre and review the different tools available for educational evaluation of children with hearing impairment.

### **Transaction & Evaluation**

Lecture-cum-demonstration, Assignments and Class tests

### **Essential Readings**

- Beattie, R. G. (2001). Ethics in Deaf Education: The First Six Years. Academic Press Inc., New York.
- English, K.M. (2002). Counseling Children with Hearing Impairment and Their Families. Allyn and Bacon, Boston.
- Gipps, C. (1996). Assessment for learning. In Little, A. and Wolf, A. (eds) Assessment in transition: Learning, monitoring and selection an international perspective. Oxford Pergamon Press, London.
- Gronlund, N.E., & Linn, R. (1990). Measurement and evaluation in teaching (6<sup>th</sup> Edition). Macmillan, New York.
- Headington, R (2003). Monitoring, Assessment, Recording, Reporting & Accountability (2nd ed.). David Fulton. London.
- Jalvi, R., Nandurkar, A., & Bantwal A., (2006). Introduction to Hearing Impairment. Kanishka Publication, New Delhi.
- Johnson, C. D., & Seaton, J. (2010). Educational audiology handbook (2nd ed.). Clifton Park: Delmar Cengage Learning Delmar Cengage Learning
- Lane, V.W., & Molyneaux, D. (1992). The dynamics of communicative development. Prentice Hall Inc., Englewood Cliffs.
- Martin, F. N., & Clark, J.G. (2012). Introduction to Audiology (11<sup>th</sup> ed.). Pearson Education. Boston.
- Martin, F.N., & Clark, J.G. (2009). Introduction to Audiology (10<sup>th</sup> ed.). Pearson Education, Boston.
- Mathew, S. (2005). Evaluation: curricular strategies and adaptations for children with hearing impairment. Kanishka Publication, New Delhi.
- Mathew, S. (2005). Evaluation: Curricular Strategies and Adaptations for Children with Hearing Impairment, Kanishka Publication, New Delhi,

- Mathew, S. (2010). Educational Evaluation .Curriculum and teaching strategies for CWHI. MED SEDE (HI ) Manual, IGNOU, New Delhi.
- Mathew, S., & Mishra, A. (2010). Knowledge based evaluation of students with hearing impairment. Journal of NCED, Vol 2, Issue 1, page 26-33.
- Mc. Laughlin, J. A. & Lewis, R .B. (2001).Assessing students with special needs (Ed.V). Merrill & Prentice Hall, New Jersey.
- Mehrens,W.A., & Lehmann, I. J.(1991).Measurement and evaluation in psychology(IVED). Harcourt Brace College. New York.
- Newby, H. A., & Popelka, G. R. (1992). Audiology (6th ed.). Appleton-Century-crofts, New York.
- Northern, J.L., & Downs, M.P. (2002). Hearing in Children. 5th Edition. Williams and Wilkins, Philadelphia: Lippincott.
- Owens, R.E. (2012). Language development: An introduction (8th ed.). Pearson, Boston.
- Status of Disability in India (2007). Hearing Impairment and Deaf-blindness. Rehabilitation Council of India, New Delhi.
- Yoshinaga-Itano, C. (2003). From screening to early identification and intervention: Discovering predictors to successful outcomes for children with significant hearing loss. Journal of deaf studies and deaf education, 8(1), 11-30.

### **Suggested Readings**

- Bess, F. H., & Humes, L. E. (1990). Audiology: The fundamentals. Williams & Wilkins, London.
- Billeaud, F.P. (2003). Communication Disorders In Infants and Toddlers: Assessment And Intervention. 3rd ed. Butterworth Heinemann.
- Hamayan, E. V. (1995). Approaches to alternative assessment. Annual Review of Applied Linguistics, 15, 212-226.
- Harrison, M., Roush, J., & Wallace, J. (2003). Trends in age of identification and intervention in infants with hearing loss. Ear and Hearing, 24(1), 89-95.
- Hibbard, K. M., & others. (1996). A teacher's guide to performance-based learning and assessment. Alexandria, VA: Association for Supervision and Curriculum Development.
- Katz, J. (1978, 1985, 1994). Handbook of Clinical Audiology. (2nd, 3rd & 4th eds.). Williams and Wilkins. Baltimore.
- Madell, J.R., & Flexer, C. (2008) Pediatric Audiology: Diagnosis, Technology and Management. Thieme Medical Publishers, New York.
- Paul, P.V., & Whitelaw, G.M. (2011). Hearing and Deafness: An Introduction for Health and Education Professionals. Jones and Bartlett Learning, Boston.
- Waldman, D., & Roush, J. (2010). Your child's Hearing Loss; A Guide for Parents. Plural Publishing, San Diego.

- Yoshinaga-Itano, C. (2003). Universal newborn hearing screening programs and developmental outcomes. *Audiological Medicine*, 1(3), 199-206.
- Yoshinaga-Itano, C., Sedey, A.L., Coulter, D.K., & Mehl, A.L. (1998). Language of early and late identified children with hearing loss. *Pediatrics*, 102(5), 1161-1171.

# CURRICULUM AND TEACHING STRATEGIES FOR CHILDREN WITH HEARING IMPAIRMENT

**Course Code: B 9**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

Having the foundations of curriculum design and approaches, the learners will find its applications while studying and designing the curriculum for children with hearing impairment. The course is especially design to add on the specialised curricular requirements of children with hearing impairment and strategies in both special and inclusive classrooms.

## **Objectives**

After completing the course teacher educators will be able to

- *Describe the curricular needs, framework and practices emerged out of the paradigm shift in education.*
- *Explain the bases, types and strategies of curricular adaptations.*
- *Understand the concept and strategies in differentiated instructions.*
- *Explain the processes and theories of literacy development.*
- *Explain the multiple literacy and their applications in curriculum.*

## **Unit 1: Curricular Needs at Different Levels**

- 1.1 Paradigm shift in education: school, teacher, learner & curriculum for 21<sup>st</sup> century
- 1.2 Causes of learning difficulties in children with hearing impairment
- 1.3 Differential curricular needs of early and late intervened children with hearing impairment
- 1.4 Curricular framework for Early intervention & Early Childhood Education
- 1.5 Domains of development facilitating the school readiness for inclusive education

## **Unit 2: Curricular Adaptations**

- 2.1 Bases of curricular adaptations & decision making
- 2.2 Step wise curricular approach and its adaptation
- 2.3 Types of accommodations, modifications and its applications
- 2.4 Strategies of adaptation of text of different school subjects
- 2.5 Adaptation in evaluation

## **Unit 3: Differentiated Instructions**

- 3.1 Relevance & Concept
- 3.2 Elements of differentiated instructions (Knowing the learner, assessing the learner, school climate, instructional strategies, adjustable assignments)
- 3.3 Need assessment & Decision making

- 3.4 Learning pyramid
- 3.5 Mastery level learning

#### **Unit-4: Literacy Development & Teaching Strategies**

- 4.1 Deafness & literacy issues;
- 4.2 Theories of literacy development and their applications
- 4.3 Processes involved in reading & writing
- 4.4 Processes involved in speaking, listening & signing in literacy development
- 4.5 Meta cognitive strategies & instructional practices

#### **Unit 5: Research & Development in Literacy**

- 5.1 Research in literacy: An overview
- 5.2 Priority areas of research
- 5.3 Identifying the gaps in literacy research
- 5.4 Readings in Researches on literacy development at different levels in the past two decades
- 5.5 Evidence based practices in literacy development

#### **Course Work/ Practical/ Field Engagement**

- Select a text of your choice and adapt the content in terms of knowledge, language, presentations illustrations
- Write an essay on the Montessori curriculum and its relevance to children with hearing impairment
- Profile the current level of functioning of literacy (one child )
- Present an article published after 2011 in an indexed journal on literacy

#### **Transaction & Evaluation**

Lecture cum demonstration, Self-learning & Workshop

#### **Essential Readings**

- Armstrong, D. G. (1989). Developing & documenting the curriculum . Allyn & Baccon, London.
- Beane J. A., Toeepfen, C. F., Allen, S. J. (1986). Curriculum planning & Development. Allyn & Bacon, London.
- Gregory, S., Powers, P., & Watson, S.(1998).Issues in Deaf Education. David & Fulton. London.
- Judy, W. (1998). Adapting instructions to accommodate students in inclusive settings. Pearson Publication, London.
- Mishra, A. (2012).Research of deaf and hard of hearing in India. Status of Disability in India, Rehabilitation Council of India, New Delhi.



- Owens, R.E. (2012). *Language development: An introduction* (8th ed.). Pearson, Boston.
- Sampson, M., Allen, R. V., & Sampson, M. B. (1991). *Pathways to literacy*. Holt Rinehart & Winston Inc., London.
- Spodek, B., & Saracho, O. N.(2006). *Handbook of Research on the Education of Young Children*. (II Ed). Lawrence Erlbaum, London.
- *Status of Disability in India* (2007). Hearing Impairment and Deaf-blindness. Rehabilitation Council of India, New Delhi.
- Stokes, J. (2000). *Communication options*. In J. Stokes (Ed.), *Hearing impaired infants – Support in the first eighteen months*. Whurr Publishers Ltd., London.
- Tannen, D., & Tanner, L. (1995). *Curriculum development : Theory to Practice* (III Ed.). Merrill & Prentice, New Jersey.
- Tompkins, G. E., & Hoskisson, K. (1995). *Language arts: Content & Teaching Strategies*( III Ed. ). Merrill & Prentice, New Jersey.
- Wallang, M. G. (2007). *Sign Linguistics and Language Education for the Deaf: An Overview of North-East Region*. Academic Excellence, New Delhi.

### **Suggested Readings**

- Ornstein, A. C., & Behar –Horenstein, L. S. (1999). *Contemporary Issues in Curriculum* (II Ed.). Allyn & Bacon, London.
- Searfoss, L. W., & Readence, J. E. (1989). *Helping children Learn to Read*. Allyn & Bacon, London.

# ADULTHOOD AND FAMILY ISSUES

**Course Code: B 10**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

The course is designed to develop learners' insight into transitional process from adolescence to adulthood and issues related to adulthood of individuals with hearing impairment. The learners are expected to appreciate the need for planning adulthood towards promoting their independent living, higher and vocational education as well as employment. The course would build suitable capacities so that the learners can address the family, community and cultural issues through suitable interventional plan.

## **Objectives**

After completing the course teacher educators will be able to

- *Appreciate the importance of planning and implementing transition services for preparing adolescents towards adulthood.*
- *Explain strategies of developing independent living skills and preparing them for gainful employment.*
- *Describe communication, cultural and family issues to reflect in planning of services.*

## **Unit 1: Transition from Adolescence to Adulthood**

- 1.1 Transition: Concept and challenges as perceived by D/deaf adolescents and their families
- 1.2 Domains of transition: Educational, independent living, social-cultural and employment
- 1.3 Factors influencing transition: Academic and personal achievement, aspiration & motivation, interaction & complexities, environmental barriers, late deafened adults; concept of self and self efficacy
- 1.4 Role of support and facilitators: Family, peers, community; agencies and environmental support
- 1.5 Planning and implementing transition services

## **Unit 2: Independent Living**

- 2.1 Concept and its importance
- 2.2 Money management and related financial skills
- 2.3 Health and physical fitness skills
- 2.4 Life skills: Social-etiquette and mannerism
- 2.5 Leisure time, hobbies and recreational activities

### **Unit 3: Higher Education, Vocational Education & Employment**

- 3.1 Higher Education: Need, scope, status of higher education
- 3.2 Vocational education: Need, scope, status of vocational education
- 3.3 Selecting suitable higher education & vocational streams
- 3.4 Career choices: job seeking skills and facing interviews
- 3.5 Work adjustment skills; Job related social skills

### **Unit 4: Community & Cultural Issues**

- 4.1 Diversity in DEAF WORLD
- 4.2 Comparison of Hearing world-Deaf world on culture and group identity and communication options
- 4.3 Legal issues regarding communication accessibility
- 4.4 Views of Cochlear Implantees and hearing aid users towards Deaf culture
- 4.5 Facilitating societal inclusion of individual with hearing impairment

### **Unit 5: Family Issues**

- 5.1 Role & challenges of families in fostering adjustment, personality development, independent living employment and marriage
- 5.2 Raising of hearing children by Deaf parents: Deaf Child Deaf Parent (DCDP); Deaf Child Hearing Parent (DCHP) issues
- 5.3 Communication patterns and parenting issues in families with Deaf parents and hearing children
- 5.4 Identifying family needs and Supporting towards resource mobilization, family networking and facilitating availability of welfare schemes
- 5.5 Advocacy at family and individual levels; Strategies

### **Practicum/ Field Engagement**

- Prepare a poster on family advocacy
- Hold a mock interview session and write your reflections upon it
- Interview a family to identify 'need and support'
- Have a focussed group discussion Deaf culture in India, and submit a reflective essay on the same
- Make a pamphlet regarding financial management for the D/deaf adult

### **Transaction & Evaluation**

- Lecture-cum-demonstration
- Inviting Deaf adults to share their experiences & success stories.

### **Essential Readings**

- Annable G., Walters, C., Strensta, D., Symanzik, S, Tuuuyb. L., & Sterwer, N. (2003). Students with disabilities, Transition from postsecondary education to work, Winnipeg. Canadian centre for disability studies, Manitoba.
- Christensen, K.M., & Gilbert, L.D. (1993). Multicultural Issues in deafness, White Plains, Longman, New York.
- Narayansamy, S., Kamraj, J., & Rangasayee, R. (2006). Family, Community and the hearing impaired child.: Kanishka Publishers, New Delhi.
- Parasins, L.A.(1996). Cultural and Language Diversity and Deaf Experience. Cambridge University Press, New York.

### **Suggested Readings**

- Bowe F.G. (2003). Transition for deaf and hard of hearing students: A blueprint for change, Journal of deaf studies and deaf education 8(40;485-93

# ASSISTIVE DEVICES & SERVICES FOR INDIVIDUALS WITH HEARING IMPAIRMENT

**Course Code: B 11**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

The course will assist learners to know about technological devices required and used in various interventional settings and also the schemes available to procure the individual aids and appliances. The course also envisages to arouse curiosity amongst learners about various technological advancements and research and development in the said area.

## **Objectives**

After completing the course teacher educators will be able to

- *Describe the available schemes and reflect on status of services for individuals with hearing impairment and suggest ways to improve.*
- *Understanding about individual and group listening devices used by CWHI in schools.*
- *Discuss role of technology in facilitating communicative educational and social functioning of language.*
- *Understanding about use of assistive devices & methods in the management of CWHI in schools/ clinics.*
- *Explain the present and future technologies, research developments and evidence based practices facilitating the education of CWHI.*

## **Unit 1: Schemes & Services for Individuals with Hearing Impairment**

- 1.1 Schemes for persons with disabilities of various ministries/departments of central and state government in early intervention, rehabilitation, education and employment;
- 1.2 Schemes for availing aids and appliances: ADIP and other schemes
- 1.3 Services for individuals with hearing impairment: Types, availability, coverage and quality
- 1.4 Delivery of services; Role of various stakeholders, planning, implementing, collaboration, challenges and issues
- 1.5 Appraisal of services: Methods of measuring outcomes and suggesting plan of action

## **Unit 2: Listening and Assistive Devices in Audiological Management**

- 2.1 Hearing aids: Overview to hearing aids; Overview to electro-acoustic characteristics and need to study same; Importance of ear moulds and its modifications
- 2.2 Cochlear Implant: Overview to cochlear implants; Need and importance for regular mapping
- 2.3 FM system: Components, Functioning, Types, Advantages and disadvantages

- 2.4 Induction loop systems & Hardwire systems: Components, Functioning, Types, Advantages and disadvantages
- 2.5 Criteria for recommendation of one device over the other; Role of special educators in measuring outcome of listening devices

### **Unit 3: Assistive Devices in Management of Language & Communication**

- 3.1 Meta level understanding of use of technology for language development
- 3.2 Access to whole language: Challenges of communication options and use of technology for ways to overcome
- 3.3 Use and availability of social media for sign language users: Communicative, educational and social purposes
- 3.4 Orientation to web based Curriculum Based Measurement (CBM) tools
- 3.5 Tele captioning of popular media and its role in literacy development

### **Unit 4: Technology & Methods in Management of Speech**

- 4.1 Parameters measured in phonation and suprasegmental aspects of speech using advanced technology and their application
- 4.2 Need and methods to analyse and to correct articulation of speech
- 4.3 Selecting management techniques for phonation and suprasegmental aspects of speech
- 4.4 Selecting management methods for facilitating articulation in CWHI
- 4.5 Methods to improve speech intelligibility; Measurement of outcome

### **Unit 5: Assistive Devices in Educational Management**

- 5.1 Impact of Technology on education: Present & Future
- 5.2 Assistive technologies for personal and educational purposes: Devices & Processes and their application
- 5.3 Mainstream Technologies: Universal Designs; its Concept, Principles & product design
- 5.4 Research & Developments in Educational technology: national & international
- 5.5 Evidence Based Practices

### **Course Work/ Practical/ Field Engagement**

- Compare the application of the technology in classroom teaching between a developing and a developed country
- Undertake a survey of available services in your locality and reflect on their status for individuals with hearing impairment. Prepare a report.
- Analysis of electro-acoustic characteristics of 5 hearing aids and write a report
- Use social media to link with individuals with deafness and submit report on your experience
- Interaction with a D/deaf adult to find out role of technology in his/her social life. Write your reflections
- Measure the speech intelligibility of 2 children with hearing impairment

- Compare schemes available in your state / country with any state / country

### **Transaction & Evaluation**

Self learning, Lecture-cum-demonstration & Workshops

### **Essential Readings**

- Andersson, C. (2014). Assistive Technology for the Hearing-impaired, Deaf and Deafblind. Springer, London.
- Beattie, Rod G. (2001). Ethics in Deaf Education: The First Six Years. Academic Press Inc. New York.
- Berg, F. (2008). Speech Development Guide for Children With Hearing Loss. San Diego: Plural Publishing.
- Dillon, H. (2001). Hearing aids. Thieme Medical Publications, New York.
- English, K. M. (2002). Counselling Children with Hearing Impairment and Their Families. Allyn and Bacon, Boston.
- Huang, D. (1998). Speech skill build-up for children. Tiger DRS Inc. <http://www.drspeech.com>
- Katz, J. (1978, 1985, 1994). Handbook of Clinical Audiology. (2nd, 3rd & 4th eds.). Williams and Wilkins, Baltimore.
- Krumenacker, S. (2014). Hearing Aid Dispensing Training Manual. Plural Publishing. San Diego.
- Kumar, K. L. (2009). Educational Technology: A Practical Textbook for Students, Teachers, Professionals and Trainers. New Age International, New Delhi.
- Mathew, S. M. (2012). Technology for persons with hearing impairment. Status of Disability in India-2012. Rehabilitation Council of India, New Delhi.
- Owens, R.E. (2012). Language development: An introduction (8th ed.). Pearson, Boston.
- Owens, R.E. (2012). Language development: An introduction (8th ed.). Pearson, Boston.
- Rapp, W. H. (2014). Universal design for learning in action. Baltimore MD: Brooks
- Sandlin, E. R. (1995). Handbook of hearing aid amplification: Theoretical and technical considerations. (vol. I). Singular Publishing Group, Inc. San Diego.
- Stewart, D. A., & Kluwin, T.N. (2001). Teaching Deaf & Hard of Hearing Students : Content , Strategies & Curriculum. Allyn & Bacon, London.
- Taylor, B., Mueller, H. G.(2011). Fitting and Dispensing Hearing Aids. Plural Publishing, San Diego.
- Waldman, D., & Roush, J. (2010). Your child's Hearing Loss; A Guide for Parents. Plural Publishing, San Diego.

### **Suggested Readings**

- Allum, D.J. (1996). Cochlear Implant Rehabilitation in Children and Adults. Whurr Publishers, London.
- Maltby, M.T. (1994). Principles of Hearing Aid Audiology. Whurr Publishers, London.
- Pollack, M. C. (1980). Amplification for the hearing impaired. Grune & Stratton, New York.
- Tweedie, J. (1987). Children's Hearing Problems, Their Significance, Detection and Management. The Bath Press, Bristol.
- Valente, M. (1996). Hearing aids standards, options and limitations. Thieme Medical Publishers, Inc., New York.
- Valente, M., Dunn, H. H., & Roeser, R. J. (2000). Audiology- treatment. Thieme Medical Publishers, New York.
- Wong, L. H., & Louise, M. (2012). Evidence-Based Practice in Audiology: Evaluating Interventions for Children and Adults with Hearing Impairment. Plural Publishing, San Diego.



# Practicum - HI

## SEMESTER I

**Course Code: E1**

**Credits: 04**

**Hours: 120**

**Marks: 100**

### **A. Audiological & Speech Evaluation and Management at Different Levels**

Sl. No.	Tasks for Teacher Educators	Settings	Specific activities	Hrs	Marks	Submissions
1	Observing behavioural audiological tests in children below the age of 2 year	Audiological clinic	<ul style="list-style-type: none"> <li>• Behavioural Observation Audiometry (2 children)</li> <li>• Visual Reinforcement Audiometry (2 children)</li> </ul>	6	5	Journal with reflections
2	Observing behavioural audiological tests in children between 2 to 5 years	Audiological clinic	<ul style="list-style-type: none"> <li>• Conditioned play audiometry (2 children)</li> <li>• Speech audiometry (Closed-set testing) (2 children)</li> </ul>	6		
3	Observing behavioural audiological tests in children	Audiological clinic	<ul style="list-style-type: none"> <li>• Conditioned play audiometry (2 children of 3 years and above)</li> <li>• Speech audiometry: Open-set testing (2 children of 5 years and above)</li> </ul>			
4	Observing physiological and electro-physiological testing	Audiological clinic	<ul style="list-style-type: none"> <li>• Immittance audiometry (2 children)</li> <li>• Otoacoustic emission (2 children)</li> <li>• Auditory Evoked potentials (2 children)</li> </ul>	6	5	
5	Observing hearing aid trial and measurement of outcome	Audiological clinic	<ul style="list-style-type: none"> <li>• Hearing aid selection (digital and analogue) (2 children each)</li> <li>• Measurement of aided audiogram (2 children)</li> </ul>	12	5	

			<ul style="list-style-type: none"> <li>• Measurement of aided speech detection / identification (2 children)</li> </ul>		
6	Use aided audiogram and speech identification scores to make recommendations	Audiological clinic	<ul style="list-style-type: none"> <li>• Making recommendations regarding mode of training and educational placement using aided audiogram and Speech audiometry (10 children in different age groups)</li> </ul>	6	5
7	Listening training	Audiological	<ul style="list-style-type: none"> <li>• Prepare lesson plans for listening training for children aged 2 years. (2 plans)</li> <li>• Prepare lesson plans for listening training for children aged 5 years. (2 plans)</li> <li>• Prepare lesson plans for speech reading training for children aged 6 years.</li> </ul>	6	5
8	Screening for hearing loss using checklists	Inclusive school/ clinic	<ul style="list-style-type: none"> <li>• Administer a checklist having signs and symptoms of hearing loss and behavioural observation on primary school children (20 children)</li> </ul>	12	10
9	Troubleshooting hearing aids	Special school	<ul style="list-style-type: none"> <li>• Carrying out Ling's 6 sound test (2 children)</li> <li>• Troubleshooting hearing aids (2 children)</li> </ul>	6	5
10	Room acoustics	Special school / Inclusive school	<ul style="list-style-type: none"> <li>• Suggesting modifications for classroom acoustics to optimize auditory and visual reception of speech (1 inclusive school and 1 special school).</li> </ul>	6	5
11	Observing phonation evaluation	Speech clinic	<ul style="list-style-type: none"> <li>• Evaluation of phonation in normal hearing children and CWHI (2 each)</li> </ul>	6	5
12	Observing	Speech clinic	<ul style="list-style-type: none"> <li>• Evaluation of articulation</li> </ul>	6	5

	articulation evaluation		in normal hearing children and CWHI (2 each)			
13	Screening for articulation problems	Special school	• Screening of articulation of CWHI (4 children)	6	10	
14	Measuring intelligibility of speech	Special School	• Measuring intelligibility of speech of typically developing children and CWHI (6 each)	12	10	
15	Home training and counseling	Speech & Hearing clinic/ Special school / inclusive school	• Based on the auditory, speech and language abilities of children, prepare home training activities (2 children) • Counsel family regarding home training activities to improve listening skills, articulation and language.	6	10	
16	Use of Apps for Speech outcomes	Clinic	• Use of free downloadable apps for measuring outcomes of phonation and articulation of CWHI	6	5	
17	Psychological Assessment	Clinic / School	• Observe, Undertake and Interpret results of psychological test on assessment of intellectual functioning by using Bhatia Battery/ WISC-Indian Adaptation.	12	10	Practical record

## SEMESTER II

**Course Code: E2**

**Credits: 04**

**Hours: 108**

**Marks: 90**

### **B. Language and Educational Evaluation**

<b>Sl. No.</b>	<b>Tasks for Teacher Educators</b>	<b>Educational settings</b>	<b>Specific activities</b>	<b>Hrs</b>	<b>Marks</b>	<b>Submission</b>
1	Compilation of tools available for educational evaluation	Educational assessment centre/ clinic	Collect different tools available for evaluation of typically hearing children and those with hearing impairment	10	5	Journal with reports & reflections
2	Case History		Studying the case history of 5 CWHI with a special focus on educational history of parents , language and biographic & educational background of CWHI	5	5	
3	Administration of language assessment Tools		Observe the administration of language tests (2 standardized and 4 non standardized ) on 5 children and report the findings	10	5	
4	Tools for evaluation of CWHI in other areas like communication, socio-emotional maturity		Observe the administration of two tests/checklist/rating scale on CWHI at different levels and report the findings Preschool-1 child Primary-1 child	5	5	
5	Tools for scholastic achievement and literacy achievement		Observe the administration of tests for assessing scholastic achievement and literacy achievement at different levels Preschool level -2 children Primary-2 children	10	5	
6	Observation of Educational evaluation		Observe the educational evaluation of CWHI at different levels and study	10	5	

			the findings in different areas - CWHI below 5 years: (5 no.) CWHI above 5 years: (5 no.)			
7	Conducting educational evaluation		Carryout the educational evaluation of 5 CWHI Preschool/Primary-3 Secondary-2	20	20	
8	Tool development		Develop one tool for assessment of language /school subject	15	10	
9	Development of materials for literacy development		Develop materials for developing pre reading and pre writing skills	15	10	
10	Lesson planning		Develop 3 lesson plans and demonstrate any one model lesson plan	8	20	
11	Psychological Assessment	Clinic / School	Observe, undertake and interpret results of following psychological test: A. Any test of assessing personality B. Any test of assessing occupational interest and aptitude	12	10	Practical record
			<b>Total</b>	<b>120</b>	<b>100</b>	

## SEMESTER III

**Course Code: F1**

**Credits: 04**

**Hours: 120**

**Marks: 100**

### **Field Engagement/ Internship as a Teacher Educators**

Sl. No.	Tasks for Teacher Educators	Educational settings	Specific activities	Hrs	Marks	Submission
1	Understanding the Organization	Teacher training institute offering diploma /degree teacher training programme	Understanding the organization's vision, mission & its programs and activities	6	5	Journal with reports & reflections
2	Understanding the operational plans		Study the calendar of activities, schedules, distribution of work assigned to the teaching, clinical and administrative staff.	14		
3	Coordination support		Support the coordinator in implementing the activities based on the approved calendar of activities & other schedule; Observing the regularity & punctuality of students, Supporting the students in filling up examination forms and other procedures of the Institute / University	30	20	
4	Teaching support		Assisting the faculty members in planning & preparing the lectures through PPTs & reference materials, Demonstration of practical based activities, preparing TLM, assisting faculty in supervising practical based activities/lesson planning, undertaking at practice teaching schools/clinical set up	40	40	
5	Library support		Supporting the students & faculty members in identifying offline and online resources including reference books and journals	6	15	
6	Mainstream / General school placement		Inclusive school	Visit a school and create awareness about inclusive education of children with disabilities through PPT and prepare a report Study the readiness ( facilitators & barriers )of the school in promoting inclusive education through a tool	24	

## SEMESTER IV

**Course Code: F2**

**Credits: 04**

**Hours: 120**

**Marks: 100**

### **Field Engagement/ Internship as a Teacher Educators**

Sl. No.	Tasks for Teacher Educators	Educational settings	Specific activities	Hrs	Marks	Submission
1	Coordination support		Support the coordinator in implementing the activities based on the approved calendar of activities & other schedule; Observing the regularity & punctuality of students , Supporting the students in filling up examination forms and other procedures of the Institute / University	10	10	Journal with reports & reflections
2	Teaching support		Assisting the faculty members in planning & preparing the lectures through PPTs & reference materials, Demonstration of practical based activities, preparing TLM, assisting faculty in supervising practical based activities/lesson planning, undertaking at practice teaching schools/clinical set up	30	30	
3	Learning support		Coaching support to weak performers for achieving the content mastery	30	30	
4	Library support		Supporting the students & faculty members in identifying offline and online resources including reference books and journals	10	10	
5	Evaluation support		Assist faculty in developing tests, observing internal test/ examination activities, evaluating class test papers & reporting under faculty supervision. Supporting the coordinator & faculty members in compiling marks for calculation of IA	10	10	
6	Research Support		Preparing a research proposal for the organization under guidance of faculty based on their needs and available resources.	30	30	

# **Disability Specialization**

## **LEARNING DISABILITY**



# IDENTIFICATION, ASSESSMENT AND NEEDS OF CHILDREN WITH LEARNING DISABILITY

**Course Code: B 8**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

This paper is an introduction paper, but at the M.Ed. level. So detailing within each area is essential. The paper begins with understanding the types of Learning Disabilities (LD). Moving to approaches and techniques of assessment to areas of assessment and the types of tests for identifying a student with LD. It is expected that the student will be proficient in the use of the tests, as well as know how to develop appropriate tools for identification followed by being able to interrelate the findings from various assessments to plan an intervention programme. Along with this the last unit covers issues related to assessment and legal provisions for students with LD

## **Objectives**

After completing the course teacher educators will be able to

- *Define and explain the different types of learning disabilities.*
- *Explain the meaning and concept of screening, identification and assessment of children with learning disability.*
- *Describe various approaches and techniques of assessment.*
- *Analyse the needs and the future trends.*

## **Unit 1: Overview of Learning Disabilities**

- 1.1 Evolution of learning disability as a field of a study
- 1.2 Prevalence, incidence –National and International
- 1.3 Types of LD- Dyslexia, Dysgraphia, Dyscalculia, Dysphasia, Dyspraxia, SLI, Non-Verbal Learning Disability
- 1.4 Associated conditions- ADHD, emotional lability
- 1.5 Etiology: Neuro biological

## **Unit 2: Approaches and Techniques of Assessment**

- 2.1 Definition, Scope and Purpose of Assessment.
- 2.2 Principles for selection of tools for assessment in various settings
- 2.3 Levels of assesment
- 2.4 Approaches to Assessment
  - 2.4.1 Neuro-Development
  - 2.4.2 Cognitive
  - 2.4.3 Psycho-linguistic

- 2.4.4 Behavioral
- 2.4.5 Task Analytical
- 2.4.6 RTI
- 2.5 Techniques of Assessment
  - 2.5.1 Observation
  - 2.5.2 Interviews
  - 2.5.3 Case Study
  - 2.5.4 Sociometric
  - 2.5.5 Error analysis/Miscue Analysis

### **Unit 3: Areas of Assessment**

- 3.1 Basic learning Processes- Attention, perception, memory, executive functioning
- 3.2 Language
- 3.3 Mathematics
- 3.4 Social
- 3.5 Application in the content areas

### **Unit 4: Types of Assessment**

- 4.1 Psychological:
  - 4.1.1 Wechlens Intelligence Scale
  - 4.1.2 Bender Gestalt Visuo-Motor Test
  - 4.1.3 Ravens Progressive Matrices
  - 4.1.4 Wechsler's Memory Scale
  - 4.1.5 Dyslexia Screening Tests
  - 4.1.6 Woodcock Johnson Test of Cognitive Ability
  - 4.1.7 Test of Thinking Ability
- 4.2 Achievement:
  - 4.2.1 Stanford Diagnostic Reading Test
  - 4.2.2 Stanford diagnostic Maths Test
  - 4.2.3 Woodcock Johnson Test of Achievement
  - 4.2.4 GLAD
- 4.3 Psycho Educational:
  - 4.3.1 DTRD
  - 4.3.2 DTLD
  - 4.3.3 Aston Index
  - 4.3.4 NIMHANS Index of SLD
- 4.4 Teacher made tests (Educational) - construction, scoring, interpretation
- 4.5 Differential diagnosis and report writing

### **Unit 5: Trends and Issues With Reference To**

- 5.1 Ethical issues in assessment
- 5.2 Responsive reporting and communication
- 5.3 Collaboration between team members
- 5.4 Legal Provisions and Issues
- 5.5 Advocacy

## **Transaction**

The course is developed for M.Ed. level. Thus, provide the trainees with theoretical basis of understanding the various types of LD. Link the classification of different specific LDs (e.g., dyslexia, dyscalculia, dysgraphia, dysphasia) with their neurobiological basis. The specific disabilities have to be understood as manifesting deficits in the curricular areas. Hence, a comparison has to be made with the skills in the curriculum hierarchies at different grade levels. Language assessment has to include both – oral language assessment (listening and speaking) as well as written language assessment (reading and writing). The discussion on the trends and issues should focus on international as well as national scenario.

## **Course Work/ Practical/ Field Engagement**

- Seminar on various types of learning disabilities
- Debate the various approaches and techniques for assessment
- Preparation of a assessment tool in a given area
- Differential diagnosis of given case from reports obtained
- Report on the current kinds of tools/tests used in inclusive schools for identifying students with LD
- Preparation of an awareness booklet with explanation of LD and the legal provisions available
- Diagnose the case based on case profiles
- Develop TMTs to assess various domains and curricular areas
- Conduct assessments and writing reports to communicate assessment outcomes.

## **Essential Readings**

- Bender, W. N. (1995). Learning Disabilities, Characteristics, Identification and Teaching Strategies, Allyn Bacon, New York.
- Choate, J. S., & Enright, B. E. (1994) : Curriculum-Based Assessment and
- Das, J. P.(2009): Reading difficulties and dyslexia. SAGE Publications Pvt. Ltd, New Delhi
- Janet W. L. ( 2011). Learning Disabilities and Related Mild Disabilities. Cengage Learning publishing. London.
- Lerner, J. W. (2000). Learning Disabilities. Houghton Mifflin, Boston.
- McCardle, P., Miller, B., Lee, J. R., & Tzeng, O. J.L. (2011). Dyslexia across Languages: Orthography and the Brain-Gene-Behavior Link. Brookes Publishing Company, New Jersey.
- Pierangelo, R., & Giuliani, G. A. (2012). Assessment in Special Education: A Practical Approach. Pearson Education, Boston.
- Programming. Allyn & Bacon, New York.
- Russo, C, J. (2011). The Legal rights of students with disabilities: International Perspectives. Rowman & Littlefield, Lanham.

## Suggested Readings

- Harwell, J. M., & Shoup, C. D. (2003). Ready-to-Use Information and Materials for Assessing Specific Learning Disabilities: Complete Learning Disabilities Resource Library, Volume I
- Harwell, J. M., & Jackson, R. W. (2008). The Complete Learning Disabilities Handbook: Ready-to-Use Strategies and Activities for Teaching Students with Learning Disabilities
- Jena, S.P.K. (2013). Specific Learning Disabilities: Theory to Practice. Sage Publications, New Delhi.
- Kapur, M., John A., Rozario J., & Oommen A.(1992). NIMHANS Index of specific Learning Disabilities, NIMHANS, Bangalore.
- Karanth, P., Rozario, J. (2003). Learning disabilities in India willing the mind to learn. . Sage, New Delhi.
- Paley, S. (2012). Promoting positive behaviour when supporting people with a learning disability and people with autism.Learning Matters Publishing, London.
- Raj, F, (2010). Breaking Through – A hand book for parents and teachers of children with specific learning disabilities. Vifa Pub, Secunderabad.
- Smith, C., & Strick, L. (2010). Learning Disabilities: A to Z: A Complete Guide to Learning Disabilities from Preschool to Adulthood. Free Press, London.
- Swanson, H. L., & Harris, K, R. (2014). Handbook of Learning Disabilities (2<sup>nd</sup> ed.). The Guilford Press, New Jersey.
- Venkateshwarlu, D. (2005): Diagnosis and remediation of mathematical difficulties. Neel Kamal publications, New Delhi.
- Werts, M. G., Culatta, R. A., & Tompkins, J. R.(2011). Fundamentals of special education: What every teacher needs to know. Pearson Education, Inc., New Jersey.
- Wong, B., & Butler, D. L.(2012). Learning about learning disabilities. (4th ed.). Academic Press, San Diego.

# CURRICULUM AND TEACHING STRATEGIES FOR CHILDREN WITH LEARNING DISABILITY

**Course Code: B 9**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

This course will enable the learners to understand the theoretical foundations of the curriculum approaches, strategies and techniques. The conventional and contemporary perspectives included in the course will broaden the learners' understanding of curricular needs of and interventions for students with LD.

## **Objectives**

After completing the course teacher educators will be able to

- *Describe the approaches, types and areas of curriculum.*
- *Analyze the various approaches and method of intervention.*
- *Comprehend the language basis in academic achievement and learning.*
- *Develop and make effective use of appropriate teaching strategies as per the specific needs of children with learning disability.*
- *Develop an understanding of various areas and approaches for fostering well-being of persons with Learning Disability.*

## **Unit 1: Perspectives of Curriculum and Teaching Strategies**

- 1.1 Curricular approaches related to persons with Learning Disability
- 1.2 Instructional Efficiency approach (Konrad, Helf and Joseph, 2011)
- 1.3 Curriculum: Alternative, Adjustment and Adaptation
- 1.4 IEP
- 1.5 Trends and Issues: Direct instruction, Constructivism, Connectivism

## **Unit 2: Approaches and Methods**

- 2.1 Perceptual motor – Kephart, Barsch, Frostig
- 2.2 Multi-Sensory-Fernald, Orton-Gillingham, Montessori
- 2.3 Behavioural-Precision Teaching, ABA
- 2.4 Cognitive – Meta Cognition, Cognitive Behaviour Management
- 2.5 Collaborative Learning Approach

## **Unit 3: Interventions for Language Development**

- 3.1 Language: concept and components/structure
- 3.2 Systems of language
- 3.3 Bilingualism and multilingualism

- 3.4 Approaches to language intervention: psycho-linguistic, language experience approach, whole language approach
- 3.5 Strategies for language development; Natural language stimulation, Expansion of language, Vocabulary building, Games, Storytelling, Drama, Role play

#### **Unit 4: Strategies for Intervention**

- 4.1 Reading Strategies
  - 4.1.1 Across stages of literacy development, Genre of text and content
  - 4.1.2 Monitoring progress (Recording and Interpreting)
- 4.2 Writing and Spelling Strategies
  - 4.2.1 Written expression; from Concrete Descriptive through Abstract Imaginative
  - 4.2.2 Writing for different purposes
  - 4.2.3 Spellings; Visual, Phonic, Morphemic, Rule-based
  - 4.2.4 Monitoring progress (Recording and Interpreting)
- 4.3 Mathematics Strategies
  - 4.3.1 For development of Mathematical language
  - 4.3.2 For visuo-spatial organisation
  - 4.3.4 For mathematical thinking (Quantitative reasoning and Problem solving)
  - 4.3.4 Monitoring progress (Recording and Interpreting)
- 4.4 Strategies for Enhancing Executive Functioning
  - 4.4.1 Meta-cognitive Strategies for Attention, Planning, Organising, Mental flexibility
  - 4.4.2 Self-direction, self-monitoring and regulation
  - 4.4.3 Monitoring progress (Recording and Interpreting)
- 4.5 Study Skills
  - 4.5.1 Note taking
  - 4.5.2 Time management
  - 4.5.3 Organisational skills
  - 4.5.4 Test taking skills

#### **Unit 5: Fostering Well-Being and Collaborations**

- 5.1 Psycho-Social skills
- 5.2 Interpersonal skills
- 5.3 Transition planning
- 5.4 Life skills
- 5.5 Working with family and community

#### **Transaction**

The course should be taught using a constructivist approach. Group discussions, presentations, development and evaluation of intervention modules for students with LD should be done. The focus should also be on encouraging students to evaluate the applicability of the strategy interventions for English language and also Indian languages.

#### **Course Work/ Practical/ Field Engagement**

- Development of intervention programmes based on given approach/methods

- Development of remedial material for specific areas of intervention across ages
- Seminar on collaborations in fostering well-being of persons with LD

### **Essential Readings**

- Butler, K. G., & Silliman, E. R. (2001). *Speaking, Reading, and Writing in Children with Language Learning Disabilities: New Paradigms in Research and Practice*. Psychology Press, London.
- Chadha, A. (2009). *A Guide to Educating Children with Learning Disabilities*. Vikas Publishing House Pvt. Ltd., New Delhi.
- Chinn, S. (2014). *The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties*. Routledge, New York.
- Farrell, M. (2013). *The Effective Teacher's Guide to Dyslexia and other Learning Difficulties (Learning Disabilities): Practical strategies*. Routledge. New York.
- Hoodin, R. (2011). *Intervention in Child Language Disorders*. Jones & Bartlett Learning, Sudbury.
- Mather, N., Wendling, B. J., & Roberts, R. (2009). *Writing Assessment and Instruction for Students with Learning Disabilities*. John Wiley & Sons, New York.
- O' Connor, R. E., Vadasy, P. F. (2013). *Handbook of Reading Interventions*. Guilford Press.
- Perfetti C. A., Rieben, L., Fayol, M. (1997). *Learning to Spell: Research, Theory, and Practice Across Languages*. Routledge.
- Scruggs, T. E., Wong, B. (2012) *Intervention Research in Learning Disabilities*. Springer Science & Business Media.
- Semrud- Clikeman, M. (2007). *Social Competence in Children*. Springer Science & Business Media.
- Swanson, H. L., Harris, K. R., Graham, S. (2014). *Handbook of Learning Disabilities*. Guilford Publications
- Wallach, G.P. (2008). *Language Intervention for School-age Students: Setting Goals for Academic Success*. Missouri: Elsevier Health Sciences.
- Wong, B., Graham, L., Hoskyn, M., Berman, J., (2011). *The ABCs of Learning Disabilities*. Academic Press.

### **Suggested Readings**

- Bradley, R., Danielson, L., & Hallahan, D.P. (2002) *Identification of Learning Disabilities: Research to Practice*. Routledge. New York.
- Gargiulo., R. (2010). *Special Education in Contemporary Society: An Introduction to Exceptionality*. SAGE Publications India Pvt. Ltd. New Delhi.
- Hart, H., Whitmore, K., & Willems, G. (1999). *Neurodevelopmental Approach to Specific Learning Disorders*. Cambridge University, Press London.

- Jones, C. J. (2008). Curriculum-based Assessment: The Easy Way to Determine Response-to-intervention. Charles C Thomas Publisher, London.
- Lerner, J. W., & Johns, B. (2014). Learning Disabilities and Related Disabilities: Strategies for Success. Cengage Learning, New Jersey.
- Little, S., & Akin- Little, A. (2014). Academic Assessment and Intervention. Routledge, London.
- Mather, N., & Goldstein, S. (2008) .Learning Disabilities and Challenging Behaviors: A Guide to Intervention & Classroom Management. Paul H. Brookes Publishing Company, London.
- Morris, A., & Shankar, P. K. (2013). Overcoming Learning Disorders. Dr. Anjali Morris Education and Health Foundation, Morris Family Fund, Carson City, NV.
- Vinson, B. (2011). Language Disorders Across the LifeSpan. Cengage Learning, New Jersey.
- Westwood, P. (2005). Spelling: Approaches to Teaching and Assessment. Australian Council for Educational Research. Camberwell.
- Wong, B., & Butler, D. L. (2012). Learning About Learning Disabilities. Academic Press, London.



# ADULTHOOD AND FAMILY ISSUES

**Course Code: B 10**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

This course deals with aspects of a young adult with Learning Disabilities (LD) that may be requiring support for a better independent functioning. From unit one to five the focus moves from knowing how needs change their manifestations to aspects of specific areas that interfere with learning and interactions. The paper also covers strategies that will help them deal with situations appropriately.

## **Objectives**

After completing the course teacher educators will be able to

- *Describe the needs of young adults with learning disabilities.*
- *Discuss the aspects of these areas which hinder the young adult with LD.*
- *Identify and plan areas for intervention.*
- *Discuss the issues related to adulthood.*

## **Unit 1: Young Adults with LD**

- 1.1 Concept and characteristics of young adults
- 1.2 Academic Characteristics
- 1.2 Cognitive Characteristics
- 1.3 Social-emotional Characteristics
- 1.5 Transition

## **Unit 2: Promoting Adaptive Behaviour in Young Adults with LD**

- 2.1 Reasoning
- 2.2 Problem solving
- 2.3 Informed decision making
- 2.4 Communication
- 2.5 Time management

## **Unit 3: Maintaining Relationships**

- 3.1 Empathy, Cue sensitivity, personal space
- 3.2 Sexuality
- 3.3 Alternative thinking, consequences
- 3.4 Self image
- 3.5 Stress management

## **Unit 4: Independent Living**

- 4.1 Organising – physical, self

- 4.2 Personal care – health, family
- 4.3 Financial management - Money transaction, Budgeting, Banking, Saving
- 4.4 Career planning and job placements
- 4.5 Leisure and recreation: Social, Physical, Psychological, and Cultural aspects

### **Unit 5: Support systems**

- 5.1 Role of self-help groups
- 5.2 Role of Family
- 5.3 Role of educational institute, community and society
- 5.4 Role of media in awareness and attitude building
- 5.5 Social network

### **Transaction**

Since the course is a part of the M.Ed., its imperative for the students to have hands on training in all the areas. A lot of research work, planning programmes, discussions, debates, presentations, must be the methodology of the entire paper. Program Based Learning, field trips, watching a movie must be incorporated for a thorough understanding of the issues at hand.

### **Course Work/ Practical/ Field Engagement**

- Develop a social skills programme to enhance adolescents participation in a group
- Watch films and discuss the various relationships and the behaviours exhibited
- Create a handbook/ Do it yourself manual that can help a young adult with LD be able to manage relationships
- Plan a programme for leisure /recreation in the neighbourhood for the students with LD
- Conduct a survey to collect data about facilities in colleges for students with LD

### **Essential Readings**

- Brunswick, N. (2012). Supporting dyslexic adults in higher education and the workplace. Wiley-Blackwell, Malden.
- Cooper, B., & Widdows, N. (2008). The Social Success Workbook for Teens: Skill-Building Activities for Teens with Nonverbal Learning Disorder, Asperger's Disorder, and Other Social-Skill Problems. Instant Help, Oakland.
- Ford, A., Thompson, J., & Shaywitz, S. (2007). On Their Own: Creating an Independent Future for Your Adult Child With Learning Disabilities and ADHD: A Family Guide. William Morrow, London.
- Gregg, N., & Deshler, D. D. (2011). Adolescents and Adults with Learning Disabilities and ADHD: Assessment and Accommodation. The Guilford Press, London.

- Karten, T. J. (2009): Inclusion strategies that work for adolescent learners!. Corwin, California.
- Quinn, P.O., Maitland, T.L., & Ische, B. (2011). On Your Own: A College Readiness Guide for Teens with ADHD/LD. Magination Press, New York.
- Rodis, P., Garrod, A., & Boscardin, M.L. (2000). Learning Disabilities and Life Stories. Pearson, London.

### **Suggested Readings**

- Goldstein, S., Naglieri, J. A., & DeVries, M. (2011). Learning and Attention Disorders in Adolescence and Adulthood: Assessment and Treatment. John Wiley & Sons, Inc., New Jersey.
- Greenbaum, J., & Markel, G. (2000). Helping Adolescents with ADHD & Learning Disabilities: Ready-to-Use Tips, Techniques, and Checklists for School Success. The Center For Applied Research In Education
- Gunton, S. (2007). Learning Disabilities (Social Issues Firsthand). Greenhaven Press, San Deigon.
- Kelly, K., & Ramundo, P. (2006). You Mean I'm not Lazy, Stupid or Crazy?!: The Classic Self-Help Book for Adults with Attention Deficit Disorder. Scribner, New Jersey.
- Reid, R., Lienemann, T.O., & Haganan, J. L. (2013). Strategy Instruction for Students with Learning Disabilities, Second Edition (What Works for Special-Needs Learners). Guilford Press, New York.
- Shapiro, J., & Rich, R. (1999). Facing Learning Disabilities in the Adult Years: Understanding Dyslexia, ADHD, Assessment, Intervention, and Research. Oxford University Press, New York.
- Simpson, C., & Spencer, V. (2009). College Success for Students with Learning Disabilities: Strategies and Tips to Make the Most of Your College Experience. Prufrock Press, New Jersey.
- Sonnet, H. (2009). Activities for Adults With Learning Disabilities: Having Fun, Meeting Needs. Jessica Kingsley Publication.

# THERAPEUTICS AND ASSISTIVE DEVICES

**Course Code: B 11**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

The purview of Learning Disabilities is very vast and varied. It may include difficulty in language acquisition, reading, writing and mathematical skills. Even within these broad categories there may be manifestations in different areas.

While remedial education in minimizing the manifestations is done by special educators, who set up goals for interventions in psychological processes and academics; very often these are not enough to ensure that the individuals with learning disabilities are mainstreamed successfully. This success often relies on a combination of therapeutic and assistive devices. The role of these interventions is also extremely important in the field of Learning Disabilities.

Students with Learning Disabilities are generally referred for the services of Occupational Therapists; Speech and Language Therapists and Psychological and Behavioural Counselling. They may also require assistive devices in the classroom for meeting the standard of work expected from students.

The current course will enable students to understand the role of these therapeutic and assistive devices. They will be able to define concepts related to therapies and assistive devices; they will be able to differentiate between the various therapies, their types and the procedures involved.

The course aims at enabling students of M. Ed. to understand the role of these therapies and assistive devices in enhancing the individuals' ability to successfully negotiate the environment and to overcome the disadvantage they are placed in, due to their disability.

## **Objectives**

After completing the course teacher educators will be able to

- *Define the concept of therapeutics and assistive devices.*
- *Identify the need for therapeutics and assistive devices.*
- *Describe different types of therapies and assistive devices.*
- *Describe how therapeutic and assistive devices can impact the lives of individuals with learning disabilities.*
- *Explain the importance of collaboration and team work.*

## **Unit 1: Introduction to Therapeutics**

1.1 Concept, scope and need for therapeutics

1.2 Types of therapies – occupational therapy, speech and language, and counselling

1.3 Assessment of needs and decision making for therapeutic intervention

- 1.4 Service delivery models [clinics, in-school]
- 1.5 Collaboration through multi, inter and trans-disciplinary approach

### **Unit 2: Occupational Therapy**

- 2.1 Occupational therapy: concept and importance
- 2.2 Assessment and identification of needs
- 2.3 Areas of occupational therapy - attention, motor, percepto-motor, sensory integration
- 2.4 Classroom interventions and use of assistive devices
- 2.5 Evaluating results, reviewing and setting goals

### **Unit 3: Speech and Language Therapy**

- 3.1 Speech and language therapy: concept and importance
- 3.2 Components of speech and language therapy
- 3.3 Assessment and identification of the needs
- 3.4 Classroom interventions
- 3.5 Evaluating results, reviewing and setting goals

### **Unit 4: Counselling Therapy**

- 4.1 Counselling: concept, importance and scope
- 4.2 Principles, ethics and basic skills in counseling
- 4.3 Assessment and identification of the needs
- 4.4 Therapies in counseling: Behavioural, cognitive, cognitive-behavioural, play therapy, Art-based therapies, bibliotherapy
- 4.5 Classroom intervention, monitoring progress and providing feedback

### **Unit 5: Assistive Devices**

- 5.1 Assistive Devices: Concept, Importance and Role
- 5.2 Assessment and Identification of the Needs
- 5.3 Types of Assistive Devices for specific learning needs: organization, reading, writing, mathematics, language
- 5.4 Benefits and limitations of using assistive devices
- 5.5 Information and Communication Technology for individuals with learning disabilities

### **Transactions**

This paper will involve direct teaching through lectures to set a base. The students will be expected to use computer laboratory in order to understand the application of software to ensure learning to the maximum extent. Students can make presentations on assessment of needs and use specific child profile to match the appropriate therapeutics and assistive device. Also the success can be evaluated through classroom observations. It can graphically Recorded using for the purpose of presentation. Visits to institution, clinics and other places where therapeutic situation and assistive devices can be observed. Students can attend workshops by experts like counsellors, therapists and IT professionals to bridge the gap

between the therapy and classroom. They can assist the inclusive classroom teacher to help improvise learning in the classroom by conducting workshops for them. Assignments on need analysis, setting targets, evaluating goals and reporting it to the therapists can be given to the students.

Discussions on ethical issues and responsive communication between professionals can be organized. Demonstrations on strategies for classroom intervention using therapy and showing its benefits can be a part of the transaction process.

### **Practicum/ Field Engagement**

- Conduct a collaborative meeting with a therapist to set targets and goals for a student
- Visit a therapeutic clinic and prepare a report on the visit based on observations of the procedures being followed
- Observe a child in the classroom and report the results pre and post therapy
- Assess a child for therapeutic and assistive devices and make recommendations
- Demonstrate 5 techniques or tools used in therapy by either an OT or a ST for in-class intervention
- Conduct a demonstration of a Circle Time for mainstream teachers to help them provide in-class support for a child with counselling needs
- Discuss the benefits of therapy with a parent
- Conduct a workshop for teachers on when and how to make referrals for therapeutic intervention
- Conduct a hands-on workshop for teachers using ICT as an assistive device

### **Essential Readings**

- Lerner, J. W. (2011). Learning Disabilities. Houghton Mifflin Brookes, Boston.

### **Suggested Readings**

- Anderson, C., & Van Der, G. A. (2005). Speech and Language Therapy: Issues in professional practice. Whurr, London.
- Christiansen, C., Baum, C., & Bass-Haugen, J. (2005). Occupational therapy: performance, participation and well-being. SLACK Inc., New Jersey.
- Creek, J. (2008). The Core Concepts of Occupational Therapy: A Dynamic Framework for Practice. Churchill Livingstone, Edinburgh.
- Creek, J. (2001). Occupational Therapy in Mental Health (3<sup>rd</sup> edition). Churchill Livingstone, Edinburgh.
- Duncan, E.A.S. (2005). Foundations for Practice in Occupational Therapy (4th edition). Churchill Livingstone, Edinburgh.
- Feltham, C. (2010). Critical Thinking in Counselling and Psychotherapy. Sage, London.

- Feltham, C., & Horton, I. (2012). *The Sage Handbook of Counselling and Psychotherapy*. Sage, London.
- Hatcher, C. (2011). *Making Collaborative Practice Work: A Model for Teachers and SLTs*. J & R Press, Guilford.
- Kersner, M. (2001). *Speech and Language Therapy: The Decision Making Process When Working with Children*. David Fulton Publishers Ltd., London.
- Paul, R., & Norbury, C. (2012). *Language Disorders from Infancy through Adolescence: Listening, Speaking, Reading, Writing, and Communicating* (4<sup>th</sup> ed.). Elsevier, Mosby.
- Pendleton, H. M., & Schultz-Krohn, W. (2013). *Pedretti's Occupational Therapy: Practice Skills for Physical Dysfunction* (7<sup>th</sup> ed.). Elsevier, Mosby.
- Raskind, M. H. (2000). *Assistive technology for children with learning disabilities. Bridges to Reading* (2<sup>nd</sup> ed.). Schwab Foundation for Learning. San Mateo, CA.
- Raskind, M. H., & Higgins, E. L. (1999). Speaking to Read: The Effects of Speech Recognition Technology on the Reading and Spelling Performance of Children with Learning Disabilities. *Annals of Dyslexia*, 49, 251-281.
- Schell, B. A. B., Gillen, G., & Scaffa, M., (2014). *Willard and Spackman's Occupational Therapy*. LWW; Twelfth, New York.
- Speake, J. (2003). *How to Identify and Support Children with Speech and Language Difficulties*. LDA, London.
- Whiston, S. C. (2013). *Principles and Applications of Assessment in Counseling* (4<sup>th</sup> ed.) Brooks/Cole, Belmont, CA.
- <http://www.pbs.org/parents/education/learning-disabilities/strategies-for-learning-disabilities/assistive-technology-devices/>

## **Practicum: LD**

### **Area E**

<b>Course Code</b>	<b>Title</b>	<b>Credit</b>	<b>Marks</b>
E1	Case work following a single subject( planning, implementation, monitoring, evaluation) for one academic year	4	100
E2	Guidance and supervision of practice of teaching lessons of B.Ed trainees	4	100

### **Area F**

<b>Course Code</b>	<b>Title</b>	<b>Credit</b>	<b>Marks</b>
F1	<ul style="list-style-type: none"><li>• Organising and conducting parent teacher meeting,</li><li>• organising awareness programme,</li><li>• scheduling and coordinating programmes</li><li>• Organising a seminar/workshop at department level</li></ul>	4	100
F2	Pre service lectures (minimum 4)	4	100



# **Disability Specialization**

**MENTAL RETARDATION  
/ INTELLECTUAL  
DISABILITY**

# IDENTIFICATION, ASSESSMENT AND NEEDS OF CHILDREN WITH MENTAL RETARDATION/ INTELLECTUAL DISABILITY

**Course Code: B 8**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

The course aims to develop an understanding of concept, etiology and characteristics of Persons with Mental Retardation/ Intellectual Disability (*PwID*). The said course would also help learners to appreciate the role of professionals to address the needs of these children in a holistic manner using team approach.

## **Objectives**

After completing the course teacher educators will be able to

- *Understand the concept, etiology and characteristics of Persons with Intellectual Disability (PwID).*
- *Use appropriate instruments for assessment of PwID.*
- *Describe the programming needs across different age levels of PwID.*
- *Utilize assessment information for educational programming, referral services and placement.*
- *Comprehend the emerging future needs of PwID.*

## **Unit 1: Overview of Intellectual Disability**

- 1.1 Definition, historical review, Prevalence of Intellectual Disability
- 1.2 Etiological factors of Intellectual Disability
  - 1.2.1 Biological, environmental factors
  - 1.2.2 Pre-natal, natal, post-natal causes
- 1.3 Classification of Intellectual Disability - Medical, Educational, Psychological criteria for classification and issues and current practices in certification of Intellectual Disability
- 1.4 Characteristics of Intellectual Disability
- 1.5 Intellectual Disability and Associated Conditions – Cerebral palsy, Autism, Sensory impairments, ADD, ADHD, Epilepsy

## **Unit 2: Screening, Identification, Assessment and Diagnosis**

- 2.1 Introduction to existing screening, identification and assessment / techniques trends in the field of intellectual disability
- 2.2 Approaches in and types of assessment
- 2.3 Methods and tools of assessment
  - 2.3.1 Screening tools
  - 2.3.2 Early identification

- 2.3.3 Developmental assessment tools
- 2.3.4 Intellectual - various standardized assessment tools: Binet – WISC - VSMS - DST Indian adaptations and other Indian tools
- 2.3.5 Social, Behavioral, Language and Speech Assessment Tools and other Indian tools
- 2.3.6 Special educational – use of CRTs, construction, precautions to be taken for development with reference to programming
- 2.4 Introduction to existing educational assessment tools – Upanayan (0 - 6 years), NIMH – Aarambh (Early Childhood Special Education Inclusive Package), Indian adaptation of portage guide, Madras Developmental Programming Systems NIMH-Functional Assessment Checklists for Programming (FACP) and other relevant tools
- 2.5 Implications of the above for Inclusion

### **Unit 3: Identification of Needs**

- 3.1 Infancy and Early Childhood; EI & Family involvement (NIMH – Family Based Program Plan)
- 3.2 School age; placement alternative (special school, Resource Room, inclusive classroom), Multidisciplinary team collaboration and role of special education teacher
- 3.3 Transition and career development – ITP (Individualized Transition Plan)
- 3.4 Vocational Development; Employment, Types; emerging Job opportunity, Placement & follow- up
- 3.5 Implications of the above for Inclusion

### **Unit 4: Use of Assessment Information**

- 4.1 Use of assessment information - Medical, Special Educational, Psychological, Therapeutic and Vocational
- 4.2 Interpretation of assessment information to develop training goals
- 4.3 Use of Support Needs Assessment for Person Centered Planning
- 4.4 Writing of assessment report: for administrative purpose, for educational Programming, for referral and for alternative placement
- 4.5 Implications of the above for Inclusion

### **Unit 5: Emerging and Future Issues**

- 5.1 Critical analysis of Human Rights and Legal Provision – International Instruments, Indian Legislations and Policies
- 5.2 Advocacy
- 5.3 Current Gender Issues - Socio Cultural and Economic
- 5.4 Advances in Technology
- 5.5 Implications of the above for Inclusion

## **Practicum / Assignment / Engagement (Any One)**

### **School/ Clinic/ Community**

- To conduct assessment of PwID using appropriate assessment tools
- To organize discussion program on role of a Special Educator in intervention from Infancy to Adulthood
- To presentation a seminar on Community Based services for ID
- To conduct orientation and sensitization program on disability issues for teachers, parents, and community members and present a report

### **Essential Readings**

- Baine, D. (1988). *Handicapped Children in Developing Countries, Assessment, Curriculum and Instructor*. University of Alberta, Alberta.
- Jeyachandaran, P., & Vimala, V. (2000). *Madras Developmental Programming System*. Vijay Human Services, Chennai.
- King-Sears, H.E. (1994). *Curriculum Based Assessment in Special Education*. Singular publishing Group, San Diego.
- Mittler, P. (1976). *Psychological Assessment of Mental and Physical Handicaps*. Tavistock, London.
- Myreddi, V., & Narayan, J. (2004). *FACP – PMR*, NIMH, Secunderabad.
- Narayan, J. (2003). *Grade Level Assessment Device for Children with Learning Problems in Regular Schools*. NIMH, Secunderabad.
- Panda, K.C. (1997) *Education of Exceptional Children*. Vikas, New Delhi.

### **Suggested Readings**

- Overton, J. (1992) *Assessment in Special Education. An Applied Approach*. Macmillan, New York.
- Overton, T. (2000). *Assessment in Special Education: An Applied Approach*, 3rd Ed, Prentice Hall Inc. Merrill.
- Pun, M., & Sen, A.K. (1989) *Mentally Retarded Children in India*. Mittal Publication. New Delhi
- Smith, D.D. (2004). *Introduction to Special Education. Training in an Age of Opportunity*, 3rd Ed. Allyn & Becon. Boston.
- Wehman.P., & Kuegel. J. (2004). *Functional Curriculum, Pro-Ed*. Austin.

# **CURRICULUM AND TEACHING STRATEGIES FOR CHILDREN WITH MENTAL RETARDATION/ INTELLECTUAL DISABILITY**

**Course Code: B 9**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Objectives**

After completing the course teacher educators will be able to

- *Explain the principles and approaches to curriculum development and instructional program.*
- *Describe the various approaches for teaching students with Intellectual Disability.*
- *Develop Curriculum for Pre-Primary, Primary, Secondary, Pre- Vocational and Vocational Level.*
- *Use Instructional Program and methods in Inclusive Set ups.*
- *Use teaching strategies and TLMs for PwID.*

## **Unit 1: Curriculum Development**

- 1.1 Principles and Models of Curriculum development
- 1.2 Approaches to curriculum development– Developmental, Functional, Ecological, SOME approach, Systems, and Task Analytic Approach
- 1.3 Instructional design– Definition, Types, Merits and Demerits
- 1.4 Curricular Adaptation, Accommodation and Modification
- 1.5 Challenges and Implications for Inclusion

## **Unit 2: Teaching Approaches**

- 2.1 Developmental Approaches– Montessori, Floor time
- 2.2 Multi-sensory Approach– Fernald, Orton and Gillingham
- 2.3 Behavioral Approach– Applied Behavior Analysis (ABA), Discrete Trail Training
- 2.4 Cognitive Approach– Meta-cognitive Training, Cognitive Behavior Management
- 2.5 Integration of above in Inclusive Classroom Context

## **Unit 3: Curricular Domains & Levels**

- 3.1 Development of Curriculum at Pre-primary and Primary level– Personal, Social, Academic, Occupational and Recreational
- 3.2 Development of Curriculum at Secondary level– Personal, Social, Academic, Occupational and Recreational
- 3.3 Development of Curriculum at pre-vocational and transitional level– Personal, Social, Academic, Occupational and Recreational

- 3.4 Development of Curriculum at Vocational level– Generic Skills and Work Related Skills, Personal skills related to routine, travel, Social Competencies, Job related behaviour– punctuality, regularity, Occupational skills– related to the job chosen (inclusive of functional academics), Health/safety skills, First Aid
- 3.5 Implications of above in Inclusion

#### **Unit 4: Instructional Programs and Methods**

- 4.1 Individualized Instruction – Concept, Types and Approaches
- 4.2 Collaborative Methods - Peer Tutoring, Co-operative Learning & Team teaching
- 4.3 Methods for social Inclusion, Social Skill Development & Self Regulation, Community Living, Life Skill Education
- 4.4. Universal design of Learning – Definition, Principles, Approaches & Strategies
- 4.5 Integration of above for Inclusion

#### **Unit 5: Teaching Strategies & TLM**

- 5.1 Stages of learning, Principles of teaching, and Steps in teaching concepts
- 5.2 Teaching Strategies – Task Analysis, Prompting & Fading, Shaping, Chaining, Reinforcement, Play way method, Project method
- 5.3 Concept and type of Teaching materials and Learning materials, Functional Aids and Criteria for selecting appropriate TLM's
- 5.4 Principles of adaptation, Adaptation of ADL material & functional academics
- 5.5 Integration of above for Inclusion

#### **Practicum/ Assignment/ Engagement in the field (Any One)**

- To present a report on adaption of curriculum for a student with Intellectual Disability in Inclusive setting
- To develop curriculum for independent living and present a report
- To present a Seminar on any of the teaching approaches.
- To develop need based learning and functional aids for PwID

#### **Essential Readings**

- Baine, D. (1988) Handicapped Children in Developing Countries, Assessment, Curriculum and Instructor. University of Alberta, Alberta
- Das, J.P., & Baine, D. (1978) Intellectual Disability for Special Educators. Springfield: Charles C. Thomas.
- John, W., & Smith, R. (1971). An Introduction to Intellectual Disability. Mc Grawhill New York.
- Kauffman, J.M., & Paynes, J.S. (1960) Intellectual Disability: Introduction and Personal Perspectives. Charges & Merrill, Columbus.
- Longone, J. (1990) Teaching Retarders Learners: Curriculum and Methods for Improving Instruction. Allyn and Bacon, Boston.

- Narayan, J., & Kutty, A.T.T. (1989) Handbook for Trainers of the Mentally Retarded Persons. Pre-Primary Level. NIMH, Secunderabad.
- Panda, K.C. (1997). Education of Exceptional Children. Vikas Publishers, New Delhi.
- Pehwaria, R., & Venkatesan, S. (1992). Behavioural retarded Children: A Manual for Teachers. NIMH, Secunderabad.
- Remington, B. (1991). The Challenge of Severe Mental Handicap. A Behaviour Analytic Approach. Wiley, New Jersey.
- Repp. A.C. (1983). Teaching the Mentally Retarded. Prentice Hall, New Jersey.

### **Suggested Readings**

- Kauffman, J. M. (1988). Teaching Students with Learning and Behaviour Problems. Merrill Publishing Co.
- Kirk, S.A., & Gallagher, J.J. (1979). Educating Exceptional Children. Hoffton & Mifflin. Boston.
- Lewis, R.B., & Doorlag, D.H. (2010). Teaching Students with Special Needs in General Education Classrooms. Pearson, London.
- Longone, J. (1990). Teaching Educable Mentally retarded Children. Allyn & Bacon, Boston.
- Mary, A. F. (1999). Curriculum and Teaching Strategies. Paul H. Brooks Publishing Co. Baltimore.
- Petersun, M.J., & Hitfie, M.M. (2003). Inclusive Teaching: Creating Effective Schools For all Learners. Allyn & Becon. Boston.
- West, C. K., Farmer, J. A., & Wolff, P. M. (1991). Instructional Design, Implications from Cognitive Science. Prentice Hall, New Jersey.

# ADULTHOOD AND FAMILY ISSUES

**Course Code: B 10**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Objectives**

After completing the course teacher educators will be able to

- *Develop understanding of stages of development in adulthood.*
- *Appreciate importance of family attitude and involvement.*
- *Understand the Gender, marriage and sexuality related issues.*
- *Understand the disability issues related to community.*
- *Appreciate the importance of adulthood and family training.*

## **Unit 1: Human Growth & Development in Adulthood**

- 1.1 Developmental stages and principles
- 1.2 Factors influencing natural development of adults
- 1.3 Adulthood and Areas of development: Physical, Social, Cognitive, Language, Emotional & Moral
- 1.4 Common adulthood problems in various areas of development
- 1.5 Implications of the above for Community Inclusion

## **Unit 2: Family and Adult with Intellectual Disability**

- 2.1 Meaning, Definition and concept of family
- 2.2 Types of family and attitude towards PwID
- 2.3 Impact of Adult with ID on the Family
- 2.4 Family Adjustment and Coping skills
- 2.5 Family support, Government Schemes and benefits

## **Unit 3: Gender, Sexuality and Marriage Related Issues**

- 3.1 Meaning & Concept of Gender & Sexuality and Marriage
- 3.2 Religious and Cultural effect on Gender & Sexuality and Marriage
- 3.3 Marriage & persons with intellectual disability: Misconceptions & Remediation
- 3.4 Importance of Pre-marital Counseling, Gender Education
- 3.5 Sexuality related issues, HIV, STD

## **Unit 4: Disability Issues – Community**

- 4.1 Attitude of community towards Adults with ID
- 4.2 Community related Issues - Aggression, Antisocial behaviour, Abuse and Social discrimination of PwID
- 4.3 Creating Awareness related to community issues
- 4.4 Community involvement & Resource Mobilization



#### 4.5 Impact of technological developments on disability issues

### **Unit 5: Adulthood and Family Training**

- 5.1 Family experiences of disability in the context of ageing
- 5.2 Training of Adults- Personal Care, Social, Domestic, Community and Leisure
- 5.3 Services for PwID in urban and rural areas
- 5.4 Independent living: Within family, Group home & Institution.
- 5.5 Parental Attitude and Counseling

### **Practicum/ Assignment/ Engagement (Any One)**

- To conduct awareness and orientation programme on various adulthood issues for parents
- To conduct and prepare a report on awareness programmes on various Govt. schemes and benefits at local level
- To conduct seminar on Sexuality, Marriage and Gender related issues of adults with ID
- To assess and present a report on family needs and Counseling
- To conduct sibling training programme and present a report

### **Essential Readings**

- Basu, S., Das, P., & Chakravarty, I. (2007). Family Life of the Disabled Aged, Ageing and Society. *Indian Journal of Gerontology*, 17 (3 & 4), 75 – 81.
- Blacher, J.(1984). Severely Handicapped Young Children and Other Families: Research in Review. Academic Press Inc., Ovlendio.
- Blook, F. (1974). Our Deaf Children, Martins Publishers Ltd. London.
- Cramer, H., & Carlin, J. (2008). Family Based Short Breaks (Respite) for Disabled Children: Results from the Fourth National Survey. *British Journal of Social Work*, 38 (6), 1060 – 1075.
- Dale, N. (2000). Working with families of Children with Special Needs: Partnership and Practice. Brunner- Routledge. East Sussex.
- Fewell, R., & Vadasy, P. (1986). Families of Handicapped Children: Needs and Supports across the Life-span. Ro-ed Inc. Texas.
- Findler, S. (2000). The Role of Grandparents in the Social Support System of Mothers of Children with a Physical Disability, *Families in Society*, 81(4) 70 – 381.
- Garginolo, R.M. (1985). Working with Parents of Exceptional Children: A Guide for Professionals, Houghton-Mifflin, Boston.
- Kashyap, L. (1991). Research on Families with Disabled Individuals: Review and Implications, in Unit for Family Studies (Ed.) *Research on Families with Problems in India*. Vol.II (pp.269-289). Tata Institute of Social Sciences, Bombay.

- Kashyap, L. (1996). Measurement Issues in Family Centered Social Work, in Bharat, .S. (Ed.) Family Measurement in India, Sage Publications. New Delhi.

### **Suggested Readings**

- Giffiths, M., & Russle, P. (Eds.) (1985). Working Together with Handicapped Children: Guidelines for Parents and Professionals. Souvenir Press, London.
- Glendinning, C. (1986). A Single Door: Social Work with the Families of Disabled Children. Allen and Unwin Ltd., London.
- Grinker, R. (1971). They grow in silence: the deaf child and his family. National Association of the Deaf, Maryland.
- Hartman, A. (1979). Finding Families: An Ecological Assessment in Adoption. Sage Publications, Beverly Hills.
- Hartman, A., & Laird, J. (1983) Family Centred Social Work Practice. The Free Press, New York.
- Hewett, S., Newson, J., & Newson, E. (1970). The Family and the Handicapped Child: A Study of Cerebral Palsied Children in Their Homes. Allen and Unwin Ltd., London.
- Hornby, G. (1994). Counselling in Childhood Disability: Skills for working with Parents. Chapman and Hall, London.
- Kashyap, L. (1986). The Family & Adjustment to their Hearing-Impaired Child. The Indian Journal of Social Work 47(1), 28-36.
- Powell, T. H. (1985). Brothers and Sisters: A Special Part of Exceptional Families. Paul Brooks, London.
- Ross, A. (1972). The Exceptional Child in the Family. Grune and Stratton, New York.

# THERAPEUTICS AND ASSISTIVE DEVICES

**Course Code: B 11**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Objectives**

After completing the course teacher educators will be able to

- *Gain knowledge about speech and language therapy.*
- *Understand the meaning and interventions of physiotherapy.*
- *Use occupational therapy for PwID.*
- *Comprehend and apply behavioural techniques for interventions.*
- *Select and use appropriate assistive devices for PwID.*

## **Unit 1: Language Speech and Communication**

- 1.1 Nature, Definition, Scope, functions and development of language, Speech and Communication
- 1.2 Critical period and its importance in speech and language development
- 1.3 Modes of communication, (Aural, Oral, Finger Spelling, Sign and Sign Language, Cued, Speech and Total Communication)
- 1.4 Types of speech and language disorders in PwID
- 1.5 Enhancing and integrating speech and language into classroom context

## **Unit 2: Physiotherapy**

- 2.1 Physiotherapy – Nature, Definition, objectives, Scope and functions
- 2.2 Modalities used in physiotherapy for persons with ID and its Associated Conditions
- 2.3 Movements and postures of human body
- 2.4 Specific conditions and physiotherapy management – Cerebral palsy, Spina bifida, Muscular dystrophy and Poliomyelitis
- 2.5 Integrating Physiotherapy into classroom context

## **Unit 3: Occupational Therapy**

- 3.1 Occupational therapy– Nature, Definition, objectives, Scope and functions
- 3.2 Modalities of Occupational Therapy for persons with ID with associated Conditions
- 3.3 Hand Functions– Types of grasps, grip, development, and eye-hand coordination
- 3.4 Sensory Integration – Nature, Development & Importance
- 3.5 Integrating Occupational therapy into classroom context

## **Unit 4: Behaviour Modification**

- 4.1 Aim, scope and importance of Behaviour Modification
- 4.2 Types of Behaviour– Adaptive and Maladaptive
- 4.3 Identification of Problem Behaviours, and Functional Analysis

4.4 Strategies for Behaviour Modification and Differential Reinforcement

4.5 Integrating Behaviour Modification in classroom context

### **Unit 5: Assistive Devices**

5.1 Definition, Importance and types of Assistive Devices for Independent Living

5.2 Different types of assistive devices for ID, HI, VI & Locomotor disability

5.3 Assessment of PWID needs to identify the appropriate assistive devices

5.4 Selection & use of appropriate Assistive Devices for PWID and Maintenance

5.5 Schemes of MoSJE– ADIP Scheme, DDRS and SC/ST scheme

### **Practicum/ Assignment/ Engagement (Any One)**

- To visit any two therapy centers and prepare and submit a report on available clinical facilities
- To present a case study on Behaviour Modification.
- To present a Seminar on Role & functions of RCI and Various Schemes of MoSJE for PwID
- To Prepare/Design appropriate adaptive and assistive device for PwID

### **Essential Readings**

- Antony, M.M., & Roemer, E. (2003). Behavior therapy. In A.S. Gurman & S.B. Messer (Eds.), *Essential psychotherapies* (2nd ed., pp. 182-223). Guilford, New York.
- Breines, E (1990). Genesis of occupation: A philosophical model for therapy and theory. *Australian Occupational Therapy Journal*, 37(1), 45-49.
- Colman, W. (1992). Maintaining autonomy: The struggle between occupational therapy and physical medicine. *American Journal of Occupational Therapy*, 46, 63-70.
- Hocking, C. (2004). Making a difference: The romance of occupational therapy. *South African Journal of Occupational Therapy*, 34(2), 3-5.
- McColl, M. A., Law, M., Stewart, D., Doubt, L., Pollack, N., & Krupa, T. (2003). *Theoretical basis of occupational therapy* (2nd Ed). New Jersey, SLACK Incorporated.
- O'Leary, K. D., & Wilson.G.T.(1975). *Behavior Therapy: Application and Outcome*. Prentice-Hall, New Jersey.
- Peshwaria, R., & Venkatesan. S. (1992) *Behavioural approach in teaching mentally retarded children - A manual for Teachers*. NIMH, Secunderabad.
- Robertson, D. (2010). *The Philosophy of Cognitive–Behavioural Therapy: Stoicism as Rational and Cognitive Psychotherapy*. Karnac. London.
- Yerxa, E. J. (1983). Audacious values: the energy source for occupational therapy practice in G. Kielhofner (1983) *Health through occupation: Theory and practice in occupational therapy*. Philadelphia, FA Davis.

- Yerxa, E., Clark, F., Jackson, J., Pierce, D., & Zemke, R. (1989). An introduction to occupational science, A foundation for occupational therapy in the 21st century. Haworth Press.

### **Suggested Readings**

- American Physical Therapy Association Section on Clinical Electrophysiology and Wound Management."Curriculum Content Guidelines for Electrophysiologic Evaluation" (PDF). Educational Guidelines. American Physical Therapy Association. Retrieved 29 May 2008.
- Clark, D. M., & Fairburn, C.G. (1997). Science and Practice of Cognitive Behaviour Therapy. Oxford University Press. New York.
- Lindsley, O., Skinner, B.F., & Solomon, H.C. (1953). "Studies in behavior therapy (Status Report I)". Metropolitan State Hospital. Walthama.
- Martin, G.; & Pear, J. (2007). Behavior modification: What it is and how to do it (Eighth Edition). Pearson Prentice Hall, New Jersey.
- O'Leary, K.D., & Wilson, T.G.(1975). Behavior Therapy: Application and Outcome, 12-14.: Prentice-Hall, New Jersey.
- Thorndike, E.L. (1911), "Provisional Laws of Acquired Behavior or Learning", Animal Intelligence. The McMillian Company, New York.
- Wolpe, J. (1958). Psychotherapy by Reciprocal Inhibition. Stanford University Press, California.

## **SEMESTER-WISE PRACTICAL**

### **SEMESTER I**

#### **Area E 1: Teaching Practice**

**Total Credits: 04**

**Hours: 120**

**Marks: 100**

Each Teacher Educators is expected to prepare 8 lesson plans for classroom teaching at Diploma (4) and Graduate (4) courses, out of them 2 will be ICT based one at Diploma and one at Graduate All the lessons will be supervised by the concerned practical coordinator. Each student trainee will be allotted 2 classes for peer observation. Out of 8 lessons at least one lesson with innovative methods and one lesson with integration of technology should be considered while selecting the lessons. Out of total 8 lessons, 6 will be guided and 2 will be submitted independently by the trainees for evaluation. Trainees have to submit Teaching practice record along with the approved lesson plans with evaluation remarks signed by the practical supervisor and course coordinator of the class taught. Final lesson plan will jointly be evaluated by the external and internal examiners followed by viva-voce.

### **SEMESTER II**

#### **Area E 2: Preparation & Administration of Teacher Made Test (TMT)**

**Total Credits: 04**

**Hours: 120**

**Marks: 100**

Each Teacher Educators is expected to prepare and administer the TMT under the guidance of a Supervisor. Student Trainees are expected to submit 2 copies of typed report on the same in detail consisting of conceptual background, rationale, methodology adopted in preparation of TMT. Students must present the same in a seminar mode. The performance will jointly be evaluated by the external and internal examiners followed by viva-voce.

## SEMESTER III

### Area F1: Internship as a Teacher Trainer

**Total Credits: 04**

**Hours: 120**

**Marks: 100**

Internship involves a compulsory placement with a teacher training institute/college running courses of the specialization. Internship will be organised for duration of four weeks. Each student trainee is expected to teach 10 lessons and do practical supervision to student trainees undergoing training in Diploma/B.Ed.Spl.Ed. level in topics from the respective curriculum. The student has to undertake any such duties as assigned by the Principal/ Incharge/ HOD of the teacher training institute.

## SEMESTER IV

### Area F1: Field Engagement/Internship

**Total Credits: 04**

**Marks: 100**

This part of internship involves associating with a field site relevant to the area of specialization. Students will take up internships in organizations working in the field of Mental Retardation/Disability Rehabilitation for duration of four weeks. These may include Govt./Autonomous organizations/ NGOs,/ CBR projects/ Special Schools/ Inclusive schools, etc. The internship should be guided by faculty supervisor of the organization who should focus on enabling the student to develop linkages between “Specialisation-required courses” and “Specialisation-elective courses”. The organisation of internship may be conceived in such a fashion that the students get opportunities to observe relevant activities in the fields such as:

1. Elicit information from parents and professionals the relevant information about one child with Specific Disability,
2. Assess the child with Specific Disability, using formal and informal tools and identify the specific learning problems,
3. Write a comprehensive assessment report by analyzing and interpreting the data collected as above
4. Develop an appropriate educational plan (IEP) (current level, annual goals, short term objectives, methods and material and evaluation)
5. Collaborate with the class teachers and related professional to implement the IEP

6. Implement IEP for a period of minimum 15 sessions (each session lasting for not less than 45 minutes)
7. Make class visits to support the student when the regular teacher teaches and collaborate with the class teachers
8. Evaluate the child and write a report

After completion of the internship, the marks will be submitted by the head of the organisation as per format sent by the institute/college.



# **Disability Specialization**

## **VISUAL IMPAIRMENT**

# IDENTIFICATION, ASSESSMENT AND NEEDS OF CHILDREN WITH VISUAL IMPAIRMENT

**Course Code: B 8**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

Assessment is a multifaceted process of gathering information by using appropriate tools and techniques in order to make educational decisions about placement and the educational programme for that student. A comprehensive functional assessment employs a combination of tools and techniques selected to be consistent with the purposes of the assessment. The interpretation and integration of information gathered from these various sources is a key factor in comprehensive assessment of visually impaired children to make informed decisions about their individualized education programme. To participate fully in this process, the learners must have an understanding of the needs of children with visual impairment and those with additional disabilities, at different stages of the growth and development; knowledge of the potential impact of the visual impairment on behaviour and functioning; and a thorough understanding of the assessment instruments and procedures.

## **Objectives**

After completing the course teacher educators will be able to

- *Trace the historical development of visual impairment and discuss the attitudinal change of society over time.*
- *Describe the causes and implications of different eye disorders.*
- *Critically examine the needs arising at different stages of persons with visual impairment.*
- *Develop skills to identify and assess children with blindness, low vision, and children with VIMD.*
- *Develop skills to plan and implement vision efficiency training for children with low vision.*

## **Unit 1: Evolving Concept and Definition of Visual Impairment**

- 1.1 History of visual impairment
- 1.2 Attitudinal and behavioural change of the society towards the persons with visual impairment
- 1.3 Paradigm shift from charity through medical and social to right based approach
- 1.4 Factors affecting changing societal attitude and policy perspectives with reference to persons with visual impairment: Self-help movements, Service delivery organizations, Judiciary and quasi-judicial bodies, UN Bodies, and media
- 1.5 Classification of visual Impairment: WHO, International Classification of Functioning, Disability and Health (ICF), and domestic legislations

## **Unit 2: Eye Disorders: Etiology and Implications**

- 2.1 Neurological causes of visual impairment: cortical visual impairment
- 2.2 Disorder related to refraction: myopia, hyperopia, presbyopia, astigmatism
- 2.3 Disorders related to receptive aspects of the eye: retinal detachment, retinitis pigmentosa, Retinopathy of prematurity, optic atrophy, anididia, and macular degeneration, and albinism
- 2.4 Muscular and related disorders: nystagmus, strabismus, amblyopia
- 2.5 Vitamin A deficiency, cataract, glaucoma, corneal ulcer, trachoma, and colour blindness

## **Unit 3: Identification and Assessment Procedures of Children with Blindness and Low Vision**

- 3.1 Methods and tools for assessment of children with blindness: Functional Skills Inventory for the Blind, Oregon project for visually impaired and Pre-schoolers, A short Scale IQ measure for the visually impaired based on WISC-R, Adapted EPQ, Adapted Blind Learning Aptitude Test, Concept development for blind Children, Reading Preference Test, Cornell Medical Index on Visually Handicapped children
- 3.2 Identification of children with low vision and psychosocial implications of low vision
- 3.3 Functional vision assessment: selection of methods and tools for functional vision assessment of persons with low vision: low vision assessment by Jill Keefe, Lea Tests
- 3.4 Concept and methods of visual efficiency training
- 3.5 Preparation of teacher made tools for functional assessment of vision and skills

## **Unit 4: Identification and Assessment Procedures of Children with Visual Impairment and Multiple Disabilities**

- 4.1 Concept of VIMD
- 4.2 Role of multidisciplinary team of professionals in assessment of children with VIMD
- 4.3 Functional assessment methods and tools for VIMD: physical, vision, hearing, tactual, and communication skills assessment
- 4.4 Implications of vision loss in adapting available tools of assessment for persons with Visual impairment
- 4.5 Preparation of teacher made tools for functional assessment of VIMD

## **Unit 5: Needs of Persons with Visual Impairment**

- 5.1 Infancy and early childhood: early stimulation and early intervention
- 5.2 School age: placement alternatives, collaboration of special and regular teacher
- 5.3 Transition Period: self-identity, self-esteem, and self-image
- 5.4 Vocational Development: emerging job opportunities
- 5.5 Adulthood issues: sexuality and marriage, recreation and leisure; geriatric groups: disintegrating family system, social security, CBR and community support

### **Course Work/ Practical/ Field Engagement (Any Three)**

- Prepare a questionnaire to identify the approach followed by an inclusive school towards the education of children with disabilities
- Visit an eye hospital/primary health centre/ compository rehabilitation camp and observe persons with different eye disorders and write a report
- Prepare and administer a teacher made tool for functional assessment of vision and visual skills of a child with low vision and submit a report
- Prepare and administer a teacher made tool for functional assessment of Vision, Hearing, Tactual, Communication and functional skills of children with VIMD and submit a report
- Critically analyse any psychological test you have studied for its applicability and identify items to be adapted for the persons with visual impairment in Indian context

### **Essential Readings**

- Barraga, N. C. (1980). Sequences of Visual Development. University of Texas. Austin.
- Bhan, S., & Swarup, S. (2010). Functional skills inventory for the blind. National association for the blind, Mumbai.
- Bhandari, R., & Narayan J. (2009). Creating learning opportunities: a step by step guide to teaching students with vision impairment and additional disabilities, including deafblindness. Voice and vision: India.
- Corn, A. L., & Koenig, A.J. 2000. Foundation of Low Vision: Clinical & Functional Perspective. AFB Press, New York.
- Dimri, A. (2002). Prepration of Norms of WISC-R (Verbal) for the Visually Handicapped. NIVH, Dehradun.
- Hyvarinen, L., & Jacob, N. (2011). What and how does this child see: assessment of visual functioning for development and learning. Vistest Ltd. Finland.
- Leat, S.J., Shute R.H., & Westall, C.A. (1999). Assessing children's vision: A Handbook. Butterworth-Heinemann: Oxford.
- Lueck, A. H. (2004). Functional Vision- A practitioner guide to Evaluation & Intervention,. AFB Press. New York.
- Mani, M.N.G. (1992). Concept development of blind children. SRK Vidyalaya. Coimbatore.
- Mani, M.N.G. (1993). Concept Development of Blind Children: A Research Study. Shri Ramakrishna Mission Vidyalaya. Printing Press. Coimbatore.
- Mani, M.N.G. (2001). Reading Preference Test (REPT) for Children with Low Vision. Coimbatore: International Human Resource Development Centre for the Disabled.

- Mukhopadhyay, M., Jangira, N.K., Mani M.N.G., & RoyChoudary, M. (1988). Source Book For Training Teachers Of Visually Impaired. NCERT. New Delhi.
- Reynolds, C.R. , & Janzen, E.F. (Ed.)(2007). Encyclopaedia of Special Education. Vol. I A-D, John Wiley, Canada.
- Sacks. S. Z., & Silberman, R.K. (2005). Educating Students who have Visual Impairments with other Disabilities, Paul H Brookes, Maryland.
- Salvia, J., Ysselduke, J.E., & Bolt, S. (2007), Assessment in Special & Inclusive Education. Houghton Mifflin: USA.
- Scheiman, M., Scheiman, M., & Whittaker, S.G. (2007). Low Vision Rehabilitation, SLACK Incorporated: USA.
- Scholl, G. T. (Ed.) (1986). Foundations of the education for blind and visually handicapped children and youth: Theory and Practice. AFB Press. New York.
- Singh, T.B. (1986). A short Scale I.Q Measure for the Visually Handicapped. NIVH, Dehradun.
- Singh, T.B. (1986). Eysenck Personality Questionnaire (EPQ) for the Visually Handicapped. NIVH, Dehradun.
- Singh, T.B. (1986).Standardisation of Cornell Medical Index on Visually Handicapped children. NIVH, Dehradun.
- Singh, T.B., & Sati, G. (1992). Use of Blind Learning Aptitude Test as a performance measure for the assessment of Visually Handicapped Children in India. NIVH Dehradun.
- Warren, D.H. (1983). Blindness and Early Childhood Development.: AFB Press, New York.

### **Suggested Readings**

- Aitken, S., Buultjens, M., Clark, C., Eyre, J.T. (2000), Teaching Children who are Deaf blind. David Fulton Publisher: London,
- Batshaw, M.L., Pellegrino, L., & Roizen, N.J. (2007), Children with Disabilities. Paul. H. Brookes: Maryland,
- Holbrook M. C. &Koenig A. J. (Eds.) (2000). Foundations of Education, Vol I: History and Theory of Teaching Children and Youths with Visual Impairments, (2<sup>nd</sup> Ed): AFB Press, New York.
- Kundu, C.L. (2000). Status of Disability in India. Rehabilitation Council of India, New Delhi.
- National Institute for the Visually Handicapped (1990). Handbook for Teachers of the Blind, NIVH Dehradun.
- Punani, B., & Rawal, N. (1993). Handbook: Visual Impairment. Ashish Publishing House, New Delhi.

# CURRICULUM AND TEACHING STRATEGIES FOR CHILDREN WITH VISUAL IMPAIRMENT

**Course Code: B 9**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

The purpose of the curriculum is encapsulated in the four capacities - to enable each child or young person to be a successful learner, a confident individual, a responsible citizen and an effective contributor. The general education curriculum should be universally designed to meet the educational needs of most students, including those with visual impairment. However, some adaptations to the learning materials and the teaching approaches have to be made so that the learning needs of visually impaired children can be met. This course prepares the learners to develop a balanced curriculum with due consideration given to the children's intellectual, personal, emotional and social developments. Learners will acquire skills to adopt a consistent, realistic and flexible approach in curriculum planning and implementation. They will be able to plan possible adaptations to the curriculum, taking into account the children's visual impairment, their abilities and learning needs.

## **Objectives**

After completing the course teacher educators will be able to

- *Appreciate the importance of various basis to curriculum development.*
- *Develop an expanded core curriculum for children with visual impairment on the basis of situational analysis.*
- *Adapt the school curriculum keeping in mind the principles of curriculum adaptation in different curricular skill areas.*
- *Demonstrate appropriate teaching strategy in teaching reading, writing, and math*
- *Critically examine approaches to curriculum development for VIAD.*

## **Unit 1: Basic Curriculum Areas and Skills**

- 1.1 Curricular skills related to cognitive domain
- 1.2 Curricular skills related to psychomotor domain
- 1.3 Curricular skills related to affective domain
- 1.4 Core curriculum, collateral curriculum, and support curriculum
- 1.5 Curriculum adaptation: Need and principles

## **Unit 2: Introduction to Expanded Core Curriculum**

- 2.1 From plus curriculum to expanded core curriculum and Introduction and Orientation to Unified English Braille
- 2.2 Philosophical basis
- 2.3 Psychological basis

- 2.4 Sociological basis
- 2.5 Ethical considerations

### **Unit 3: Steps in Expanded Core Curriculum Development**

- 3.1 Assessment of needs with reference to accessing school curriculum
- 3.2 Designing a need based curriculum: situational analysis for selection of skills and method of teaching
- 3.3 Developing a collaborative curriculum
- 3.4 Implementation of the curriculum
- 3.5 Critical evaluation of the curriculum

### **Unit 4: Strategies for Teaching**

- 4.1 Specific teaching strategies: task analysis, co-activity, pre teaching, self-verbalization, direction giving, generalization, feature enhancement, and use of kinaesthetic movement
- 4.2 Teaching reading to students with visual impairment: Reading aloud, peer reading, organic reading, and whole language approach
- 4.3 Strategies for writing skills: guided and independent writing
- 4.4 Strategies for teaching math: concrete, experiential, role play, and origami
- 4.5 Strategies for teaching use of ICT: demonstration, verbal instruction, and peer tutoring

### **Unit 5: Approaches to Curriculum Development for VIAD**

- 5.1 Ecological
- 5.2 Multisensory
- 5.3 Thematic
- 5.4 Functional
- 5.5 Experiential

### **Course Work/ Practical/ Field Engagement (Any Two)**

- Identify and present various curricular domains in the given chapter from a text book
- Adapt the school curriculum in any one subject keeping in mind the principles of curriculum adaptation
- Design the curriculum for a child with visual impairment
- Develop a thematic curriculum for a child with VIAD

### **Essential Readings**

- Aggarwal, J.C. (2005). Curriculum development 2005. Shipra Pub. Delhi.
- Bhandari, R., & Narayan J. (2009). Creating learning opportunities: a step by step guide to teaching students with vision impairment and additional disabilities, including deaf-blindness. Voice and vision: India.

- Biwas, P.C. (2004). Education of children with Visual Impairment: in inclusive education. Abhijeet Publication, Delhi.
- French, S., & Swain, J. (1997). From a different view point: the lives and experiences of visually impaired people. Jessica Kinsey Pub, London.
- Grover , U., & Chaudhari. M. (2009). Curricular Strategies. Kanishka Publication, New Delhi.
- Hodapp, R. M. (1998). Developmental and disabilities: Intellectual, sensory and motor impairment. Cambridge Uni. Press, New York.
- Jain, P. (2006). Curriculum & teaching. Kanishka Publication, New Delhi.
- Joyce, B., Weil, M., & Calhoun, E. (2009). Model of teaching. PHI learning Pvt. New Delhi.
- Lowenfeld, B. (1973). The Visually Handicapped Child in School. John Day Company, New York.
- Mangal. S.K. (2007). Educating exceptional children-an introduction to special education. PHI Learning Pvt. New Delhi.
- Rao, V. (2009). Curriculum development. Saurabh Pub, New Delhi.
- Scholl, G.T. (1986). Foundations of the education for blind and visually handicapped children and youth: Theory and Practice. AFB Press, New York.
- Sharma, R.A. (2011). Curriculum development and instruction. R. Lal Book Depot, Meerut.
- Shrivastava, N. (2010). Blind and mentally handicapped children: problems and coping strategies. Ritu Publication, Jaipur.
- Srivastava, H.S. (2011). Curriculum & method of teaching. Shipra Pub., Delhi.
- Vijayan, P., & Victoria, G. (2009). Education of visually impaired children with additional disabilities. Kanishka Publication, New Delhi.

### **Suggested Readings**

- Agrawal, S. (2004). Teaching mathematics to blind students through programmed learning strategies. Abhijeet Publication, Delhi.
- Baratt, S. H. (2008). The special education tool kit. Sage Publication, New Delhi.
- Bhan, S., & Swarup, S. (2010). Functional skills inventory for the blind. National association for the blind, Mumbai.
- Maitra, K. (2010). Inclusion: Issues and Perspective. Kanishka Publication, New Delhi.
- Mani, M.N.G. (1992). Concept development of blind children. SRK Vidyalaya: Coimbatore.
- Mani, M.N.G. (1992). Techniques of teaching blind children. Sterling Publishers Pvt. Ltd. New Delhi.



- Mukhopadhyay, M., Jangira, N.K., Mani M.N.G., & RoyChoudary. M. (1988). Source Book For Training Teachers Of Visually Impaired. NCERT. New Delhi.
- Niemann, S., & Jacob, N. (2009). Helping children who are blind. California: The Hesperon/ Chetana Charitable Trust, Chennai.
- Pandey, V.P. (2004). Teaching of mathematics. Sumit Publication, New Delhi.
- Punani, B., & Rawal, N. (2000). Handbook for Visually Impaired. Blind Peoples' Association, Ahmedabad.
- Adaptations to the curriculum for the visually impaired children, Retrieved on May 28<sup>th</sup> 2015, from URL: [https://cd.edb.gov.hk/la\\_03/chi/curr\\_guides/Visually/ev-3.htm](https://cd.edb.gov.hk/la_03/chi/curr_guides/Visually/ev-3.htm)

# ADULTHOOD AND FAMILY ISSUES

**Course Code: B 10**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

Parents are advocates, teachers, and nurturers for their children. Family members of any person with visual impairment are at a risk for emotional difficulties if their support systems or coping skills are inadequate. Learners must understand the challenges that are often associated with a family of a person with visual impairment from birth till adulthood focussing on periods of transition. Learners should be able to empower the parents with information regarding the array of educational services and supports available to the families of children with visual impairment.

## **Objectives**

After completing the course teacher educators will be able to

- *Analyze the role of family as a support system from birth to adulthood.*
- *Discuss the concerns of the family of a person with visual impairment.*
- *Meet the challenges faced at different stages of transition of a person with visual impairment.*
- *Develop the skills to prepare an ITP and IFSP.*
- *Develop a critical understanding of schemes for equal opportunities.*

## **Unit 1: Role of Family in the Continuum of Support System**

- 1.1 Adjustment and accommodation to the birth of a special child
- 1.2 Organization and family functioning
- 1.3 Family involvement in infancy and early childhood
- 1.4 Family involvement in school age
- 1.5 Family involvement in transition to adulthood

## **Unit 2: Transition Issues**

- 2.1 Transition from home to school
- 2.2 Transition from school to college
- 2.3 Transition from education to work
- 2.4 Meaning and Definition of Individualized Transition Plan (ITP)
- 2.5 Role of family in developing ITP

## **Unit 3: Family Issues in Adulthood**

- 3.1 Higher Education
- 3.2 Career Education
- 3.3 Life Skills Education

- 3.4 Marriage and home skill management
- 3.5 Rehabilitation of adventitious visually impaired

#### **Unit 4: Planning Family Support Services**

- 4.1 Concept and objectives of family support services
- 4.2 Components of family support services
- 4.3 Identifying family needs
- 4.4 Individualized Family Service Plan (IFSP) under PL 99-457
- 4.5 Preparing an IFSP in Indian context

#### **Unit 5: Equal Opportunity Provisions: Schemes and Facilities**

- 5.1 Schemes for education of children from pre-school to higher and tertiary education
- 5.2 Schemes and facilities for vocational training and skill development
- 5.3 Schemes and statutory provisions to promote employment, self-employment, and livelihoods
- 5.4 Concessions for persons with visual impairment
- 5.5 Concept and types of parent family partnerships

#### **Course Work/ Practical/ Field Engagement (Any Two)**

- The teacher trainees should develop an individualized transition plan for a given person with visual impairment
- The teacher trainees should develop an individualized family service plan for a family of a person with visual impairment
- The teacher trainees should critically examine any two schemes under equal opportunity schemes

#### **Essential Readings**

- Bhandari, R., & Narayan, J. (2009). Creating learning opportunities: a step by step guide to teaching students with vision impairment and additional disabilities, including deafblindness. Voice and vision: India.
- Educational Concessions and Facilities for Blind Students. National Association for the Blind: Mumbai Foundation for the Blind.
- Kirk, S.A., Gallagher, J.J., & Anastasiow, N.J. (2000). Educating Exceptional Children. Houghton Mifflin Company: New York
- Lowenfeld, B. (1973). Visually Handicapped Child in School. American Foundation for the Blind. New York.
- Lowenfeld, B. (1975). The Changing Status of the Blind from Separation to Integration. Charles C. Thomas, Springfield.
- Narayan, J., & Riggio, M. (2005). Creating play environment for children. Hilton/Perkins: USA.

- Patil, H.J. (2008). (5 Ed). Concession for the Blind. National Association for the Blind: Mumbai
- Shah, A. (2008). Basics in guidance and Counselling. Global Vision Publishing House, New Delhi.
- Smith, D. D. & Luckasson, R. (1995). Introduction to Special Education – Teaching in an age of Challenge. (2 Ed). Allyn & Bacon, Boston.

### **Suggested Readings**

- Fernald, L.D. & Fernald, P.S. (2001). Introduction to Psychology (5<sup>th</sup> ed.). A.I.T.B.S Publishers, New Delhi.
- Morgan, C.T., King, R.A., Weisz, J.R., & Schopler, J. (2002). Introduction to Psychology. (7Ed.). Tata McGraw Hill Publishing, New Delhi.
- Kundu, C.L. (2000). Status of Disability in India 2000, RCI: New Delhi.
- Lowenfeld, B. (1971). Psychological problems of children with impaired vision, Prentice-Hall, New Jersey.
- Furlong, M.J., Gilman, R. & Huebner, E.S. (2014). Handbook of Positive Psychology in Schools. Routledge, New York.
- Hilgard, E.R., Atkinson, R.C. & Atkinson, R. L. (1975). Introduction to Psychology (6<sup>th</sup> ed.) Oxford, New Delhi.

# APPLICATION OF ADVANCED TECHNOLOGY AND PERSONS WITH VISUAL IMPAIRMENT

**Course Code: B 11**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

Developments in the sphere of assistive technologies and ICT have opened up a wide array of exciting opportunities and possibilities for persons with visual impairment. These technologies must, now, form the basis of all activities for effective empowerment of the visually impaired.

It is, therefore, in the fitness of things that technology solutions should form the subject-matter of the present course. The course familiarizes the M.Ed. students with devices in the fields of education, independent living, employment and related aspects. So extensive, in fact, is the scope and range of technology applications for the visually impaired, today that it is well-nigh impossible to list each and every solution here. Therefore, the course seeks to present a representative sampling with a view to providing the students an indication of the trends and developments in the field. It is hoped that the students would find the devices most fascinating and would be motivated to move further ahead on their own to know of various other technology applications.

The course also focuses on enabling the students to develop the capacity of ascertaining the efficacy of these devices in the Indian conditions. It also provides them an insight on how they could help in resource-mobilization for the acquisition of these technologies, many of which are extremely costly from the Indian perspective.

## **Objectives**

After completing the course teacher educators will be able to

- *Explain the relevance of technology for persons with visual impairment.*
- *Illustrate various devices to facilitate the education of persons with visual impairment.*
- *Describe various technological devices for promoting quality of life of persons with visual impairment.*
- *Critically analyse suitability/ appropriateness for various technological devices for persons with visual impairment.*
- *Discuss various trends in research on technology for persons with visual impairment.*

## **Unit 1: Introduction to Technology for the Visually Impaired**

- 1.1 Historical perspective of assistive technology in the rehabilitation of persons with visual impairment
- 1.2 Concept, need and importance of assistive technology with specific reference to the Indian context

- 1.3 Types of Assistive Technologies
- 1.4 Special roles of technology for facilitating empowerment of persons with visual impairment
- 1.5 Hardware, software, cybernetics and systems, with special reference to persons with visual impairment- an overview

## **Unit 2: Technological Devices– Traditional and Modern for the Education of the Visually Impaired**

- 2.1 Writing Technologies: Braille Slates of different types, Braille- mechanical and electrical, computers with screen readers and computer-based screen magnifiers and screen readers for Indian languages, Braille Note takers and Smart Braille
- 2.2 Reading Technologies: Braille, Refreshable Braille Displays, Stand-Alone reading machines, OCR systems, scanner/ camera-based OCR systems, Indian languages scanning software and Text to Speech (TTS), screen readers for phones and tablets, Smart Phone and DAISY players
- 2.3 Technology for Mathematics and Science Education: Abacus, Taylor Frame, Geo Kit, measuring tapes-- strengths and limitations; softwares for accessing Mathematics and Science text, hardwares and softwares for making Science Lab accessible: Automatic Stir Station (hardware), Drop Counter( hardware), Sci-Voice (software), Talking Interferential Therapy Machine( hardware), Talking Lab Quest and Talking Logger
- 2.4 Braille Production Technologies: Stereo typing Machines- mechanical and electrical, Braille translation software with special reference to Indian languages, embossers and printers, Braille labeling systems, tactile diagrams and graphics production devices
- 2.5 Critical analysis of the devices mentioned under Unit 2.1 to 2.4 in the context of the Indian situation

## **Unit 3: Technologies for Facilitating Independent Living for Persons with Visual Impairment**

- 3.1 Mobility Devices: canes - rigid, collapsible, folding and Smart Canes; Global Positioning Systems (GPS), ultra sonic devices, vibrating technologies
- 3.2 Fitness and Health: Thermometer - tactile and audio, Talking Blood Glucose Meter, Talking Blood Pressure Device, Talking Medcenter Pill Organizer System, Talking Pedometer, weighing machine- Braille and Talking
- 3.3 Recreational Devices - Chess Board, playing cards, adapted Ludo and Snakes and Ladders, adapted Scrabble, adapted puzzles, Talking Chess, audio Cricket Ball and audio Football, adapted Table Tennis/ Show Down, Goleball, adapted Volley Ball
- 3.4 Home management Devices: audible/ vibratory Liquid Level Indicator, Talking Measuring Cup, Talking Food Thermometer, Talking Kitchen Scale, Talking Microwave Oven, Talking Timer, Braille and Talking Alarm Clocks and Watches, Needle Threader

3.5 Critical analysis of devices mentioned under Unit 3.1 to 3.4

#### **Unit 4: Employment-related Technologies for the Visually Impaired**

4.1 Braille Shorthand Machine

4.2 Dictaphone

4.3 Dictation Software

4.4 Application of screen reading technologies for promoting/ diversifying employment opportunities

4.5 Making workplaces and available workshop equipment and other machines accessible to persons with visual impairment– Guidelines and Principles

#### **Unit 5: Procurement and Assessment of Technological Devices for Persons with Visual Impairment**

5.1 Sources of availability and maintenance of technology devices

5.2 Resource mobilization for procurement of devices

5.3 ADIP scheme of the Government of India, Department of Empowerment of Persons with Disabilities

5.4 Parameters for assessing efficacy/ suitability of devices in the Indian context

5.5 Recent trends in research on technology for visually impaired

#### **Course Work/ Practical/ Field Engagement**

- Analyze critically the efficacy of any two traditional/modern devices from Unit 2 to Unit 4
- Draw up a list of addresses of suppliers of technological devices for persons with visual impairment
- Survey the availability and use of technology in one special school and one inclusive school and prepare a critical report

#### **Essential Readings**

- Taraporevala, S., & D'Sylva, C. (2014). Equip Your World: A Synoptic View of Access Technology for the Visually Challenged. Joint Publication of NIVH, Dehradun & XRCVC, Mumbai.
- Mani. M.N.G. (1997). Amazing Abacus. S.R.K. Vidyalaya Colony, Coimbatore.
- Singh, J.P. (2003). Technology for the Blind- Concept and Context, Kanishka Publication, New Delhi.
- Proceedings: Asian Conference on Adaptive technologies for the Visually Impaired (2009). Asian Blind Union, New Delhi.

#### **Suggested Readings**

- Fernandez, G., Koenig. C., Mani. M.N.G., & Tensi, S. (1999). See with the Blind. Books for Change, Bangalore.

- Scheiman, M., Scheiman, M., & Whittaker, S.G. (2007). Low Vision Rehabilitation. SLACK Incorporated, New Jersey.
- <https://www.afb.org/prodmain.asp>
- <http://www.independentliving.com/products.asp?dept=141&deptname=New-Products>
- <http://shop.rnib.org.uk>
- <http://shop.lighthouseguild.org>



## **Practicum – VI**

### **SEMESTER I**

**Course: E1**

**Credits: 04**

**Marks: 100**

- Learning of Unified English Braille (UEB) literary code and use of advance Braille Mathematics and Science Code.

### **SEMESTER II**

**Course: E2**

**Credits: 04**

**Marks: 100**

- 5 lectures with B.Ed. students (1 in pedagogy subject, 1 in inclusive education, and 3 in specialization papers) -- 50 Marks (@ 10)
- Teaching of ICT to B.Ed. students 5 classes -- 50 marks

### **SEMESTER III**

**Course: F1**

**Credits: 04**

**Marks: 100**

#### **One Month Internship**

- Internship 15 days in B.ED special education(VI). During this period the students will teach two lectures on core papers, 4 lectures in specialization papers and 2 lectures each in 2 pedagogy papers. (50 Marks each)
- Plan and demonstrate cooperative teaching strategy 7 lessons in inclusive School. -- (50 Marks each)
- Submit a comprehensive report on challenges faced during internship and strategies followed to address them.

## SEMESTER IV

**Course: F2**

**Credits: 04**

**Marks: 100**

### Field engagement

- Prepare community participatory programme (workshops for awareness programmes for public using multimedia/charts/street plays etc.) -- (50 Marks)
- conduct seminar on ICT -- (25 Marks)
- Guide and observe B.Ed. trainees in their practice lessons (at least 5 lessons) – (25 Marks @ 5)

OR

Work out a critical study of the teachers' training institute on quality management, resources, time table, etc. – (25 Marks)

- Prepare a Report

## AREA C

### ELECTIVE COURSES

**Note: Any one to be offered**

<b>Course Code</b>	<b>Title</b>	<b>Credits</b>	<b>Marks</b>
C12	Educational Management	4	100
C13	Educational Technology	4	100
C14	Guidance and Counselling	4	100

# EDUCATIONAL MANAGEMENT

**Course Code: C 12**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Introduction**

Educational management is a field of study and practice concerned with the operation of educational organizations. The field draws links from diverse disciplines such as economics, general management & Information technology. The course content included in the present program hence includes inputs from varied disciplines and is envisaged to equip the learners to understand the know-how's of managing educational institutes on the basis of total quality management principles.

## **Objectives**

After completing the course teacher educators will be able to

- *Explain the basic fundamental areas of management.*
- *Describe the skills required for enhancing institutional quality for sustained development.*
- *Enumerate the skills required for capacity building of human resources.*
- *Explain the skills needed to manage data for various information management processes.*
- *Prepare cost effective budgets, proposals and describe ways of managing financial resources.*

## **Unit 1: Foundations in Educational Management**

- 1.1 Definition & Concept: Management as an art, science, organization, person & a discipline
- 1.2 Approaches to management; a) Classical approach, b) Human relation approach, c) Systems approach, d) Contingency approach
- 1.3 Principles & processes of management
- 1.4 Styles of management; autocratic, laissez-faire, transactional, contingency
- 1.5 Leader vs. Manager; role competencies

## **Unit 2: Total Quality Management in Education**

- 2.1 Concept of Quality and issues in Quality management of educational institutes
- 2.2 Educational applications
- 2.3 Assessment of educational institutions
- 2.4 Strategic planning & Sustainable development
- 2.5 Implementing TQM

## **Unit 3: Human Resource Management**

- 3.1 Manpower planning, talent acquisition & management
- 3.2 Employee benefits, welfare & Performance appraisals systems- 360 degree approach

- 3.3 Training, development & capacity building
- 3.4 Organisational behaviour; climate & culture
- 3.5 Individual & group dynamics, conflict management & negotiations

#### **Unit 4: Educational Management Information Systems (EMIS)**

- 4.1 Need, relevance and National agencies for EMIS
- 4.2 Internal & external stakeholders of EMIS
- 4.3 Tools & process for collecting and disseminating data & using information
- 4.4 Constituting indicators & data monitoring plans
- 4.5 Dissemination, distribution & publication of data

#### **Unit 5: Financial Management**

- 5.1 Need & Importance of financial management in educational institutes
- 5.2 Basic concepts in accounting
- 5.3 Importance & types of budgeting
- 5.4 Resource mobilisation & allocation
- 5.5 Proposal writing for funding in educational institutes

#### **Transaction**

Lectures, Field visits, Self-study

#### **Course Work/ Field Work**

- Proposal writing for fund raising of an educational institution
- Review performance appraisals from 2 educational institutions one each from a teacher training college and other from special school

#### **Suggested Readings**

- Bhardwaj, K. S., (2014). Human Resource Development in Education. Partridge Publication, Gurgaon.
- Bush, T., & Paul, L. S. (2006). Principles and Practice of Educational Management. Chapman A Sage Publications Company, London.
- Chatterjee, B. K. (2011). Finance for Non – Finance Managers. Jaico Publishing House, New Delhi.
- Deshmukh, A.V., & Naik. A. P. (2010). Educational Management. Himalaya Publishing House Pvt. Ltd., Mumbai.
- Dessler, G. (2012). Human Resource Management. Prentice Hall, London.
- Dimmock, C. (2012). Leadership in Education: Concept, Themes and Impact. Routledge, New York.
- Leithwood, K., & Jantzi, D. (1999). Changing Leadership for Changing Times. Open University Press, London.

- Lewls, T. (2012). Financial Management Essentials: A Handbook for NGOs.
- Mathis, R. L., & Jackson, J. H. (2010). Human resource management (13th ed.).
- Mukhopadhyaya, M. (2011). Total Quality Management in Education. Sage publications India Pvt. Ltd. New Delhi.
- Nkomo, S. M., Fottler, M. D., & McAfee, R. B. (2010). Human resource management applications: Cases, exercises, and skill builders (7th ed.).
- Pande, S., & Basak, S. (2012). Human Resource Management. Text and Cases. Amazon Digital South Asia Services, Inc.
- Rayner, S. (2007). Managing Special and Inclusive Education. Sage Publications Ltd. London.
- Senge, P. (2007). A Fifth discipline Resource. Schools that lead: Nicholas Brealey Publishing, London.
- Senge, P.M. (1994). The fifth Discipline; The Art & Practice of The Learning Organization. Currency Doubleday, New York.
- Shapi, J. (N.K). Writing a Funding Proposal.
- Ulrich, D., & Brockbank, W. (2005). The HR Value Proposition. Boston: Harvard Business School Press. (ISBN-13: 978-1591397076 or ISBN-10: 1591397073).

# EDUCATIONAL TECHNOLOGY

**Course Code: C 13**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Objectives**

After completing the course teacher educators will be able to

- *Discuss roles of Educational Technologists in various contexts.*
- *Apply appropriate instructional strategies.*
- *Develop appropriate instructional media.*
- *Integrate suitable ICT effectively in teaching-learning-evaluation.*
- *Suggest suitable modality of instruction (Online, Blended, etc.).*

## **Unit 1: Educational Technology**

- 1.1 Concept, Definition and Scope of Educational Technology
- 1.2 Need and Role of Educational Technologists in India
- 1.3 Growth of conceptual framework of Educational Technology: ET1, ET2, ET3 ...
- 1.4 Systems Approach; Meaning, Scope and Components
- 1.5 Communication Process
  - 1.5.1 Meaning and components
  - 1.5.2 Models of communication: Simple, Osgood and Schramm, Gerbner's mode
  - 1.5.3 Interaction analysis: Equivalent Category System and Flander's Interaction Analysis System

## **Unit 2: Instructional Technology**

- 2.1 Concept and Definition of Instructional Technology
- 2.2 Theories and Models of ISD: Dick & Carrey, Gagne, Kirk and Guftason
- 2.3 Steps in developing Instructional design :Learner analysis, Content analysis, Deciding entry and terminal behaviour, Preparing test, Selection of method, Selection of media, Development of material, Tryout, Formative and summative evaluation
- 2.4 Methods & Models Instructional designs for Large Group and Individual Instructions
- 2.5 Co-operative and Individual Learning Strategies for children with disabilities

## **Unit 3: Instructional and Interactive Learning**

- 3.1 Interactive learning: concept, need and components
- 3.2 Instructional Media for children with Special needs
- 3.3 Interactive learning Material for children with disabilities
- 3.4 Development of Interactive learning Material
- 3.5 Integrating ICTs for children with special needs (e.g. Social Media, Collaborative tools and techniques such as Blogging, ICT tools for research, bibliography, etc)

#### **Unit 4: ICT For Inclusion**

- 4.1 ICT for 21<sup>st</sup> century learning
- 4.2 Dilemmas and Realities about applications in ICT in inclusive education
- 4.3 Potentials of ICT in inclusive education-Access, equity, participation, Skill development and life- long learning
- 4.4 ICT for teaching-learning
- 4.5 Role of ICT in curriculum transaction

#### **Unit 5: Recent Trends in Technology**

- 5.1 Online Learning
- 5.2 Blended Learning
- 5.3 M-Learning
- 5.4 MOOC
- 5.5 OER

#### **Course Work/ Practical/ Field Engagement**

- Prepare an observation report of classroom teaching based on Flanders Interaction analysis
- Prepare and plan an educational display on a bulletin board using charts, diagrams, graphs, posters, cartoons and comics
- Prepare a story board in any one unit of a subject for a child with disability
- Present a research paper on application of any one recent trend in inclusive education
- Seminar on issues in application of ICT in inclusive education

#### **Suggested Readings**

- Bhatt, B. D., & Sharma, S. R. (2003). Educational Technology concept and Technique (Modern Education Series). Kanishka Publisher, New Delhi.
- Diana, L. O. (2001). Multimedia – Based Instructional Design: Computer – Based Training. Jossey – Bass
- Horton, W. (2001). Designing web-based Training. John Wiley & Sons. New Jersey.
- Kumar, K., Kumar, S. (2004). ICT Skill Development. GBD Publications, Gurusar Sadhar.
- Mukhopadhyay, M (1990). Educational Technology Challenging Issues. Sterlings Publisher's Pvt. Ltd. New Delhi.
- Rosenberg, M.J. (2001). E-Learning. McGraw Hill, New York.
- Sallis, E., & Jones, G. (2002). Knowledge Management in Education London: Kogan Page Ltd.
- Santhosh, V. (2009). Information communications technology for teacher education. Kanishka Publisher, New Delhi.
- Schank, R.C. (2001). Virtual Learning. McGraw Hill. London.
- Shehzad, A. (2007). Teacher's Handbook of Educational Technology. Anmol,



Publishing Pvt. Ltd., New Delhi.

- Singh, T. (2009). ICT Skill Development. Tandon Brothers, Ludhiana.
- Venkataiah, N. (2002), Educational Technology. APH Publication Corporation, New Delhi.

# GUIDANCE AND COUNSELING

**Course Code: C 14**

**Credits: 04**

**Contact Hours: 60**

**Marks: 100**

## **Objectives**

After completing the course teacher educators will be able to

- *State the basic concepts in Guidance & Counselling.*
- *Discuss Educational, Vocational and Personal Guidance.*
- *Describe testing devices and non-testing techniques of guidance.*
- *Analyze the problems faced by students in the contemporary world.*
- *Discuss the problems faced by children with disabilities.*

## **Unit 1: Education and Career Guidance**

- 1.1 Concept, principles, Objectives and need for guidance at various educational levels
- 1.2 Types of Guidance: Individual and group, Personal, Educational and Vocational
- 1.3 Career Development needs of students. Changing scenarios in a global world
- 1.4 Tests and Techniques for Guidance: Testing techniques (Aptitude, Interest, Achievement & Personality) Non-testing techniques (Interview, Case study, observation, Diary, anecdotal and commutative record)
- 1.5 Essential services in a school guidance program

## **Unit 2: Vocational Guidance**

- 2.1 Factors influencing choice of career
- 2.2 Theories: Vocational Choice, Vocational development and Career development theories
- 2.3 Assessment of Vocational maturity
- 2.4 Occupational information in Guidance
- 2.5 Guidance for students with disabilities.

## **Unit 3: Fundamentals of Counselling**

- 3.1 Concept and nature of counselling
- 3.2 Scope and objectives of counselling
- 3.3 Stages of the counselling process
- 3.4 Counselling techniques
- 3.5 Ethical principles and issues

## **Unit 4: Group approaches in Vocational Counselling and Guidance**

- 4.1 Types, areas and approaches of Counselling
- 4.2 Steps and skills in the counselling process
- 4.3 Advantages and Disadvantages of Group Guidance techniques
- 4.4 Essential services in school and community based guidance programs

- 4.5 Placement, research, evaluation services and Job study- i) Job description, ii) Job specification, iii) Job analysis, iv) Job satisfaction

### **Unit 5: Assessment in Educational and Vocational Guidance and Counselling**

- 5.1 Assessment of underachievement and challenges  
5.2 Assessment of giftedness and special strengths  
5.3 Career test construction, administration, scoring and interpretation  
5.4 Crisis Intervention; Grief, relationships, depression, Academic, stress, violence, abuse  
5.5 Role of counsellor in the contemporary context

### **Course Work/ Practical/ Field Engagement**

- Visit different Guidance Centres and write a report
- Review a film for counselling
- List the resources required and their optimum use in managing a school guidance programme
- Develop a career choice assessment tool in view of personal characteristics of any
- Child with disabilities and available opportunities
- Prepare a brochure on career opportunities for children with different disabilities

### **Essential Readings**

- Naik, P.S. (2013). Counselling Skills for Educationists. Soujanya Books, New Delhi.
- Nayak, A.K. (1997). Guidance and Counselling. APH Publishing, Delhi.
- Rao, V. K., & Reddy, R.S. (2003). Academic Environment: Advice, Counsel and Activities. Soujanya Books, New Delhi.
- Shah, A. (2008). Basics in Guidance and Counselling. Global Vision Publishing House.
- Sharma, V.K. (2005). Education and Training of Educational and Vocational Guidance. Soujanya Books, New Delhi.

### **Suggested Readings**

- Kapunan, R.R. (2004). Fundamentals of Guidance and Counselling. Rex Printing Company, Phillipines.
- Pal, O.B. (2011). Educational and Vocational Guidance and Counselling. Soujanya Books, New Delhi.

**AREA D**  
**DISSERTATION**

# DISSERTATION

**Total Credits: 16**

**Marks: 400**

Dissertation will be compulsory for all regular students. The students will work under the guidance of a supervisor to be allotted by the HOD/Principal of the Department/ College. Students are expected to complete the Dissertation work in four phases in four semesters.

## **Phase 1: Synopsis Submission**

In the first semester the students have to develop the Research proposal (Synopsis) and present the same in the Faculty Seminar at the end of the first semester.

## **Phase 2: Review of Literature and Development of Tools**

During the Second Semester the student has to conduct review of literature and develop relevant tools for their research projects. Students have to present a seminar on collected review of literature and tools developed in the faculty seminar and seek feedback and incorporate suggestions given by the faculty.

## **Phase 3: Data collection**

In phase three, students must complete data collection and data analysis.

## **Phase 4: Data analysis, Results Discussion and Thesis Submission**

In phase four students must complete Data analysis, Results and Discussion and report writing and submit the final report at the end of fourth semester. The students have to submit three typed copies of Dissertation to the Department/ College by the end of IV Semester. The viva-voce will be held on a date to be fixed by the University. Dissertation and viva-voce will be evaluated jointly by external and internal examiners.

**MINIMUM QUALIFICATIONS FOR  
THE APPOINTMENT OF  
FACULTY IN SPECIAL EDUCATION**

## MINIMUM QUALIFICATIONS FOR THE APPOINTMENT OF FACULTY IN SPECIAL EDUCATION

S.N.	Designation	Essential Qualification	Desirable Qualification
1.	<b>Professor (Disability papers)</b>	<p>1) Masters Degree in any discipline with not less than 50% of marks*</p> <p>2) M.Ed. Degree in specific disability area with not less than 55% of marks Or an equivalent grade of B+ in 10- point scale of UGC</p> <p style="text-align: center;">OR</p> <p>An equivalent degree from a foreign university recognized by RCI.</p> <p>3) Ph.D in Special Education or Education with research emphasis on Special Education.</p> <p>4) Should have completed at least 10 years of teaching experience as faculty out of which minimum 5 years should be in specific disability area.</p> <p>5) Should have completed at least one general orientation course and two refresher courses in education / special education of UGC</p> <p>Valid registration with RCI u/s 19 of RCI Act 1992 is essential *RCI as Statutory Regulatory Body prescribes 50% as per the UGC Regulations Gazette dt. September 18, 2010 section 1.1.1</p>	<p><b>Desirable:</b> Minimum 5 publications pertaining to Special Education in indexed journals and research experience</p>
2.	<b>Associate Professor/ Reader (Disability papers)</b>	<p>1) Masters Degree in any discipline with not less than 50% of marks*</p> <p>2) M.Ed. Degree in specific disability area with not less than 55% of marks Or an equivalent grade of B+ in 10- point scale of UGC</p> <p style="text-align: center;">OR</p> <p>An equivalent degree from a foreign university recognized by RCI.</p> <p>3) Ph.D in Special Education or Education with research emphasis on Special Education.</p> <p>4) Should have completed at least 08 years of teaching experience as faculty out of which</p>	<p><b>Desirable:</b> Minimum 3 publications pertaining to Special Education in indexed journals and research experience</p>

		<p>minimum 05 years should be in specific disability area.</p> <p>5) Should have completed at least one general orientation course and two refresher courses in education / special education of UGC</p> <p>6) Valid registration with RCI u/s 19 of RCI Act, 1992 is essential  <i>*RCI as Statutory Regulatory Body prescribes 50% as per the UGC Regulations Gazette dt. September 18, 2010 section 1.1.1</i></p>	
3.	<b>Assistant Professor/ Lecturer (Disability papers)</b>	<p>1) Masters Degree in any discipline with not less than 50% of marks*</p> <p>2) M.Ed. Degree in specific disability area with not less than 55% of marks Or an equivalent grade of B+ in 10- point scale of UGC</p> <p style="text-align: center;">OR</p> <p style="text-align: center;">An equivalent degree from a foreign university recognized by RCI.</p> <p style="text-align: center;">Valid registration with RCI u/s 19 of RCI Act, 1992 is essential  <i>**RCI as Statutory Regulatory Body prescribes 50% as per the UGC Regulations Gazette dt. September 18, 2010 section 1.1.1</i></p>	<b>Desirable:</b> M.Phil / Ph.D in Special Education or Education with research emphasis on Special Education; Experience for a period of at least 2 years as teacher or researcher in the area of specific disability
4.	<b>Course Coordinator/ HoD For M.Ed. Programme</b>	<p>No separate designations such as Coordinator, Director, Administrator, etc., prescribed by the RCI.</p> <p>The qualifications of the head of the B.Ed.Spl.Ed. / M.Ed.Spl.Ed programme should be as that of the Professor / Reader as laid down by the RCI with a Valid registration with RCI u/s 19 of RCI Act 1992.</p>	<b>Not applicable</b>
	<b>Course Coordinator/ HoD For B.Ed. Spl.Ed. Programme</b>	<p>No separate designations such as Coordinator, Director, Administrator, etc., prescribed by the RCI.</p> <p>B.Ed.Spl.Ed. programme, the Senior most faculty will be treated as Head of the Department/ Course Coordinator</p> <p>Valid registration with RCI u/s 19 of RCI Act 1992 is essential</p>	<b>Not applicable</b>



**Note:**

1. *The qualifications prescribed above are valid for five years only i.e., up to May 2020.*
2. *The teacher – student ratio is 1:10.*
3. *The specific disability area mentioned in this document refers to Visual Impairment, Hearing Impairment, Mental Retardation, Learning Disability, Multiple Disability, Locomotor Disability, etc. The specific disability areas are not interchangeable as a measure of maintenance of standards in Special Education. For example, a person who has specialized in B.Ed. Special Education in visual impairment cannot get admission in M.Ed. mental retardation, etc. The above condition applies to the Lecturers also who are recruited in these programmes.*
4. *For specialization in VI area, Masters degree in school subject will be required. Similarly for specialization areas in Mental Retardation and Hearing Impairment, Masters Degree in Psychology, Child Development/ Human Development, Sociology, Linguistics and Education will be preferred.*
5. *Part-time faculty is one who is on the rolls of the institute for taking a fixed number of classes per week/per month basis whereas a visiting faculty is invited as and when required or as per the availability of the faculty on hourly basis.*
6. *There is no separate designations such as Coordinator, Director, Administrator, etc., prescribed by the RCI for running teacher preparation courses. The qualifications of the head/ co-ordinator of the B.Ed.Spl.Ed. and M.Ed.Spl.Ed. programme should be as that of the Professor/ Reader as laid down by the RCI.*
7. *For Institutes offering only B.Ed. (Special Education) programme, the senior faculty will be treated as Head of the Department/Coordinator.*
8. *For M.Ed. Special Education course, appointment of faculty on contract basis should be for minimum of 24 months. Appointment of faculty on contract basis will be allowed for running M.Ed.Spl.Ed. course only if regular fulltime faculty for B.Ed.Spl.Ed. course already exists as per the RCI norms.*
9. *In case of non-availability of a candidate with M.Ed. (Special Education) in particular disability specialization for faculty position at B.Ed. (Special Education) level, M.Ed. (Special Education) in some other disability specialization may be considered for three years i.e., up to 2017-18.*
10. *The Board of Studies of affiliating/ concerned university to have a member nominated by RCI.*

**Faculty {Assistant Professor/ Lecturer (Disability papers)} for B.Ed.Spl.Ed. (Autism Spectrum Disorders) and B.Ed.Spl.Ed. (Multiple Disabilities)****I. Essential qualifications for faculty: - B.Ed.Spl.Ed. (Autism Spectrum Disorders)**

- a) Post Graduate degree
- b) M.Ed (Special Education) with either a dissertation in the field of ASD or a Diploma in ASD
- c) Two years experience of teaching in special schools for children with ASD

d) Having valid RCI registration

**(This would be applicable for next five years, to be revised as per need)**

**II. Essential qualifications for faculty: B.Ed.Spl.Ed. (Multiple Disabilities) -**

a) Post Graduate degree

b) M.Ed (Special Education) with either a dissertation in the field of MD or B.Ed. (Special Education) MD/ B.Ed. Special Education (Locomotor and Neurological Disorder)/ P.G. Diploma in Special Education (Mult.Dis.:Physical and Neuro.) / P.G. Dipl. in Developmental Therapy (Mult. Dis.:Physical and Neuro.)

c) Two years experience of teaching in special schools for children with MD

d) Having valid RCI registration

**(This would be applicable for next five years, to be revised as per need)**

**Norms for Faculty Requirement for D.Ed.,  
B.Ed. & M.Ed. Special Education  
Programmes**

### Norms for Faculty Requirement for D.Ed., B.Ed. & M.Ed. Special Education Programmes

S.N.	MINIMUM NUMBER OF FACULTY PER COURSE	No. Of students in 2015-16	No. Of students in 2016-17	Disability specialization faculty (A)	Common paper Faculty (B)	Total	Professor (from Specialisation) (C)	Asso.Professor (from specialisation) (D)	Asst. Prof. (E)	Number of faculty from per specialisation (F)	Number from other specialisation area. (G)
							(Break up of A & B)			(Break up of A)	
1	D.Ed. (One Disability Specialization)	30	30+30	3	1	4	--	--	4	--	--
2	D.Ed. (Two Disability Specialization)	30+30	30+30+30+30	5	2	7	--	--	7	--	--
3	D.Ed. (Three Disability Specialization)	30+30+30	30+30+30+30+30+30	7	3	10	--	--	10	--	--
4	B.Ed. (One Disability Specialization)	30	30+30	4	1	5	-	1	4	3	1
5	B.Ed. + B.Ed. (Two Disability Specialization)	30+30	30+30+30+30	5	2	7	--	2	5	2+2	1
6	B.Ed. + B.Ed. (Three Disability Specialization)	30+30+30	30+30+30+30+30+30	7	3	10	--	3	7	2+2+2	1
7	D.Ed. + B.Ed. (One Disability Specialization)	30+30	30+30+30+30	5	2	7	--	1	6	2+2	1
8	D.Ed. + B.Ed. (Two Disability Specialization)	30+30+30+30	30+30+30+30+30+30+30+30	8	3	11	--	2	9	3+3	2
9	D.Ed. + B.Ed. (Three Disability Specialization)	30+30+30+30+30+30	30+30+30+30+30+30+30+30+30+30+30+30	12	3	15	--	3	12	3+3+3	3
10	B.Ed. + M.Ed. (Same Disability)	30+10	30+30+10+10	5	2	7	1	2	4	2+2	1

	Specialization)										
11	B.Ed.(two disabilities) + M.Ed. (one of the two Disabilities Specialization)	30+30+10	30+30+30+30+10+10	6	2	8	1	2	5	2+2	2
12	B.Ed.+ M.Ed. (First Disability Specialization)+B.Ed +M.Ed. (Second Disability Specialization)	30+30+10+10	30+30+30+30+10+10+10+10	8	3	11	1	3	7	3+3	2
13	B.Ed.+ M.Ed. (First Disability Specialization)+ B.Ed.+ M.Ed. (Second Disability Specialization)+ B.Ed. (Third Disability Specialization)	30+30+30+10+10	30+30+30+30+30+30+10+10+10+10	12	3	15	3	3	9	3+3+3	3
14	D.Ed.+ B.Ed.+ M.Ed. (One Disability Specialization)	30+30+10	30+30+30+30+10+10	6	3	9	1	2	6	4	2

**Note: For running Open and Distance Education programme, per disability per programme, one additional faculty will be required.**

# **EXPERT COMMITTEES**

## **Expert Committee for the development of training programs in the field of special education for persons with Hearing Impairment**

<ul style="list-style-type: none"> <li>• Dr. Varsha Gathoo HOD, Department of Special Education Ali Yavar Jung National Institute for the Hearing Handicapped K C Marg Bandra (W)-Mumbai-50</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. Manisha Aggarwal House No.10, Sector-1, Ambala City, Haryana-134003</li> </ul>
<ul style="list-style-type: none"> <li>• Ms. Saraswathi Narayanaswamy The School for Young Deaf Children Old No. 14, New No. 18, 1st Cross Street, Shastri Nagar, Chennai-600 020</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. Asmita Huddar Principal, Hashu Advani College of Special Education,64-65, Collector's Colony, Chembur, Mumbai – 400 074</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. Asha Yathiraj All India Institute of Speech &amp; Hearing Manasa Gangothri ,Mysore-570 006</li> </ul>
<ul style="list-style-type: none"> <li>• Mrs. Nisha Grover Akshar Trust, 11 th Floor Kirti Tower, Next to Kirti Mandir, Tilak Road, Vadodra – 01</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. (Mrs.) Surinder P.K. Randhawa Room No.5, DEC Building, IGNOU, Maidan Garhi, New Delhi-110068</li> </ul>
<ul style="list-style-type: none"> <li>• Ms Monica Punjabi, Indian Sign Language Department Mook Badhir Sangathan, Scheme No.71-B, Behind Ranjeet Hauman Temple, Indore -452009</li> </ul>
<ul style="list-style-type: none"> <li>• Sr. Merley Tom Fernando Speech &amp; Hearing Centre Krzhakayil, Bada Pani, Shillong, 793122</li> </ul>
<ul style="list-style-type: none"> <li>• The Head Department of Special Education All India Institute of Speech &amp; Hearing, Manasagangothri, Mysore-570006</li> </ul>
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<ul style="list-style-type: none"> <li>• Shri S S Mishra Composite Regional Centre for Persons with Disabilities North Gandhi Maidan, Patna -800 001</li> </ul>
<ul style="list-style-type: none"> <li>• Shri B Nageshwar Rao AYJNIHH,ERC B.T.Road, Bon Hooghly,Kolkata-700090</li> </ul>

## **Expert Committee for the development of training programs in the field of special education for persons with Visual Impairment**

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<ul style="list-style-type: none"> <li>• Dr. R. Ranganathan Coordinator, Dept. of Special Education Andhra University, Visakhapatnam – 530 003</li> </ul>
<ul style="list-style-type: none"> <li>• Shri A.K. Mittal , President All India Confederation of the Blind Sector V, Rohini, New Delhi – 100 085</li> </ul>
<ul style="list-style-type: none"> <li>• Smt. Swati Sanyal Blind Relief Association, Near Oberoi Hotel Lal Bahadur Shastri Marg, New Delhi – 110 003</li> </ul>
<ul style="list-style-type: none"> <li>• Shri Raman Shankar, Director (Education) National Association for the Blind 11, Khan Abdul Gaffar Khan Road, Worli Seaface, Mumbai 400 030</li> </ul>
<ul style="list-style-type: none"> <li>• Prof. Anita Julka Head, Dept. of Education of Groups with Special Needs, NCERT, Sri Aurobindo Marg, New Delhi-110016</li> </ul>
<ul style="list-style-type: none"> <li>• The Director/Nominee Sense International (India) 2nd Floor, Admin block, Andhajan Mandal Campus, Opposite IIM, Vastrapur. Ahmedabad – 380 015</li> </ul>
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<ul style="list-style-type: none"> <li>• Dr. Sushma Sharma Dept. of Education, Kurukshetra University, Thanesar, Haryana 136119</li> </ul>
<ul style="list-style-type: none"> <li>• Shri Manjeet Singh Saini Composite Regional Centre for Persons with Disabilities, Near Mahamaya Temple, Sunder Nagar, Dist. Mandi- 175018</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. K Rayar 379, Jeya Illam, TPTC Nagar, Trichy Main Road, Salamedu, Villupuram, 605401</li> </ul>



**Expert Committee for the development of training programs in the field of special education for persons with Mental Retardation/Intellectual Disability and Learning Disability**

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<ul style="list-style-type: none"> <li>• The Director/Nominee National Institute for the Mentally Handicapped, Manovikas Nagar, Bowenpally, Secunderabad-500 009</li> </ul>
<ul style="list-style-type: none"> <li>• The Director/Nominee National Institute for Empowerment of Persons with Multiple Disabilities East Coast Road, Muttukadu, Kovalam Post, Chennai – 603 112</li> </ul>
<ul style="list-style-type: none"> <li>• The Head of the Department Department of Special Education Sweekaar Rehabilitation Institute for the Handicapped, Upkaar Circle, Upkaar Junction, Secunderabad-500 003</li> </ul>
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<ul style="list-style-type: none"> <li>• Dr. Anupam Ahuja Associate Professor Dept. of Education of Groups with Special Needs, NCERT, Sri Aurobindo Marg, New Delhi-110016</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. D. Venkateswarlu School of Education, IGNOU, Maidan Garhi, New Delhi – 110068</li> </ul>
<ul style="list-style-type: none"> <li>• Prof. Smriti Swarup 5, Jeewan Akshay, Plot No. 188, Sector-6, Charkop, Kandivali (W), Mumbai-400 067</li> </ul>
<ul style="list-style-type: none"> <li>• Ms. Giselle Lobo Nirmala Institute of Education Altinho, Panjim, 403001, Goa</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. Jayanthi Narayan, Consultant, Special Education (LD &amp; ID) Former Dy. Director, NIMH 2- C, Anugraha Apartments, 157/7, Staff Road, Secunderabad 500 009</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. N.C. Pati Chetana Institute for the Mentally Handicapped, A/3, Institutional Area, Bhubaneswar- 751013</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. C. Renuga Devi Assistant Professor in Special Education (Mental Retardation), Department of Education Mother Teresa Women's University Kodaikanal – 624101</li> </ul>

<ul style="list-style-type: none"> <li>• Shri Hemant Singh Keshwal Govt. Institute for the Welfare of the Mentally Retarded Children, Sectro-32-C, Chandigarh-160047</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. Preeti Verma Dept. of Special Education, S.N.D.T. Women's University Sir Vithaldas Vidyavihar, Juhu Road, Santacruz (W) , Mumbai – 400 049</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. (Mrs.) Usha Grover C-60, Malviya Nagar, New Delhi-110017</li> </ul>
<ul style="list-style-type: none"> <li>• Shri Sanjay Kumar Dr. Shakuntala Misra National Rehabilitation University Mohaan Road, Lucknow 226017</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. H.R. Dhull ARPAN, Institute for the Mentally Handicapped, Gandhi Nagar, Rohtak – 124 001</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. Saroj Thapa Educational Development Specialist, Universal Learn Today, India Today Group, No. 6, President Estate, Talkatora Road, New Delhi-110004</li> </ul>
<ul style="list-style-type: none"> <li>• Shri Ashok Chakravorty Secretary, Shelter, 3, Bholanath Bhaduri Sharani, Bhadreswar, Hooghly -712124, WB</li> </ul>
<ul style="list-style-type: none"> <li>• Smt. Usha Chaujer CW-27GF, Malibu Towne, Sohana Road Gurgaon-122001</li> </ul>

**Expert Committee for the development of training programs to promote courses Inclusive Education and Multicategory Teacher Training:**

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<ul style="list-style-type: none"> <li>• Mrs. Aloka Guha Flat - 2A, Three Oaks, N/85, E-Block, New Alipore, Kolkata – 700 053</li> </ul>
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<ul style="list-style-type: none"> <li>• Dr. Vijay Shankar Sharma Associate professor Dr. Shakuntala Misra National Rehabilitation University, Mohaan Road, Lucknow-226017</li> </ul>
<ul style="list-style-type: none"> <li>• Mrs. VRP Sheilaja Rao Department of Special Education NIMH, Manovikas Nagar, Bowenpally Secunderabad-500009</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. Gayatri Ahuja, AYJNIHH,NRC, Kasturba Niketan, Lajpat Nagar-II, New Delhi 110 024</li> </ul>
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<ul style="list-style-type: none"> <li>• Shri A.K. Mittal , President All India Confederation of the Blind Sector V, Rohini, New Delhi – 100 085</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. Sushma Sharma Dept. of Education, Kurukshetra University, Thanesar, Haryana 136119</li> </ul>
<ul style="list-style-type: none"> <li>• Ms.Ruma Banerjee, Director/Secretary of Seva-In-action # 36, S.T Bed layout, I Main, Koramangala, Bangalore – 560 034</li> </ul>
<ul style="list-style-type: none"> <li>• Prof. Anita Julka Head, Dept. of Education of Groups with Special Needs, NCERT, Sri Aurobindo Marg, New Delhi-110016</li> </ul>
<ul style="list-style-type: none"> <li>• Prof.(Dr) Renu Singh A-2 Maharani Bagh, New Delhi-110065</li> </ul>
<ul style="list-style-type: none"> <li>• Dr. Shanti Auluck Muskan-NGO Empowering the Differently Abled Sector B, Pocket 2, Vasant Kunj New Delhi - 110 070</li> </ul>
<ul style="list-style-type: none"> <li>• Prof. Smriti Swarup 5, Jeewan Akshay,Plot No. 188, Sector-6, Charkop, Kandivali (W), Mumbai-67</li> </ul>

## Special Invitees and NCTE Representatives

<ul style="list-style-type: none"><li>• Prof. N.K. Jangira N.C.T.E. Representative</li></ul>
<ul style="list-style-type: none"><li>• Prof.(Dr) Renu Singh N.C.T.E. Representative</li></ul>
<ul style="list-style-type: none"><li>• Dr. Amitav Misra N.C.T.E. Representative</li></ul>
<ul style="list-style-type: none"><li>• Dr. Neeraja Shukla N.C.T.E. Representative</li></ul>
<ul style="list-style-type: none"><li>• Dr. Sujata Bhan Special Invitee , S.N.D.T. Women’s University , Mumbai</li></ul>
<ul style="list-style-type: none"><li>• Prof. Rubina Lal Special Invitee, SOPAN, Mumbai</li></ul>
<ul style="list-style-type: none"><li>• Dr. Bharti Sharma Special Invitee , Jamia Milia University, New Delhi</li></ul>
<ul style="list-style-type: none"><li>• Dr. Suni M Mathew Special Invitee , A.Y.J.N.I.H.H., Mumbai</li></ul>
<ul style="list-style-type: none"><li>• Dr. Rajiv R Jalvi Special Invitee , A.Y.J.N.I.H.H., Mumbai</li></ul>
<ul style="list-style-type: none"><li>• Smt. Anjali R Kant Special Invitee , A.Y.J.N.I.H.H., Mumbai</li></ul>
<ul style="list-style-type: none"><li>• Ms Shilpa Manogna Special Invitee , N.I.M.H., Secunderabad</li></ul>
<ul style="list-style-type: none"><li>• Dr. Madhavi Sharma Special Invitee , N.I.M.H., Secunderabad</li></ul>
<ul style="list-style-type: none"><li>• Ms M Sarada Special Invitee , N.I.M.H., Secunderabad</li></ul>
<ul style="list-style-type: none"><li>• Dr. Vinod Kumar Kain Special Invitee , N.I.V.H., Dehradun</li></ul>
<ul style="list-style-type: none"><li>• Mrs Nishat Imam Special Invitee, Mumbai</li></ul>
<ul style="list-style-type: none"><li>• Ms Ruchika Sachdev Special Invitee, Mount Litera Zee School, Mumbai</li></ul>
<ul style="list-style-type: none"><li>• Mrs Apoorva Panshikar Special Invitee, S.N.D.T. Women’s University , Mumbai</li></ul>
<ul style="list-style-type: none"><li>• Dr Shyamala Devi Special Invitee, Mind’s College of Special Education, Mumbai</li></ul>

## Annexure



### भारतीय पुनर्वास परिषद्

(सामाजिक न्याय और अधिकारिता मंत्रालय, भारत सरकार के अधीन एक सांविधिक निकाय)

### REHABILITATION COUNCIL OF INDIA

(A Statutory Body under the Ministry of Social Justice and Empowerment)

o/No. 29238-29338  
29340-29420  
29422-29502  
7-91/RCI-2009  
29504-29582

Office Order

दिनांक/Date.....

Speed Post

20/04/2009

The Coordinators/Head

Subject: B.A & B.Ed General Education & PGPD course equivalent to B.Ed Special Education –  
Reg

Madam/Sir,

This is to inform you that following courses or combination of courses are equivalent to  
B.Ed. (Special Education):

- B.Ed in General Education with Post Graduate Professional Diploma in Special Education (PGPD-SE)
- DSE (Special Education)/D.Ed. (Special Education) with B.Ed. in General Education
- Senior Diploma in Teaching the Deaf
- Secondary level Teacher Training course in Visual Impairment
- PG Diploma course in Special Education (Mental Retardation)

Thanking you,

Yours faithfully,

(Dr. J.P. Singh)  
Member Secretary

बी - 22, कुतुब इंस्टीट्यूशनल एरिया, नई दिल्ली - 110 016  
B - 22, Qutub Institutional Area, New Delhi - 110 016  
Ph.: 011-2653 2408, 265 32816, 2653 2384, 2653 4287, Fax : 011-2653 4291  
E-mail : rehabstd@ndc.vsnl.net.in E-mail : rehabstd@nde.vsnl.net.in  
Visit us at :- www.rehabcouncil.nic.in



भारतीय पुनर्वास परिषद्  
(सामाजिक न्याय और अधिकारिता मंत्रालय, भारत सरकार के अधीन एक सांविधिक निकाय)  
**REHABILITATION COUNCIL OF INDIA**  
(A Statutory Body under the Ministry of Social Justice and Empowerment)

File No. 7-91/RCI-2009

By Hand

दिनांक/Date 09/10/2009

Subject: Equivalence of courses with B.Ed Special Education – Reg

Sir,

I am pleased to inform you that following courses or combination of courses are equivalent to B.Ed (Special Education) and a circular to this effect has been sent to all the recognized RCI vide file of even No. dated 20/4/2009.

Diploma in General Education with Post Graduate Professional Diploma in Special Education (PGPD-SE)

- DSE (Special Education) D.Ed. (Special Education) with B.Ed. in General Education
- Senior Diploma in Teaching the Deaf
- Secondary level Teacher Training course in Visual Impairment
- PG Diploma course in Special Education (Mental Retardation)
- PG Diploma in Special Education (Multiple Disabilities : Physical & Neurological)

Thanking you,

Yours faithfully,

S. K. Mishra  
(S. K. Mishra)

Deputy Director (Academics)

बी- 22, कतुब इस्टीट्यूशनल एरिया, नई दिल्ली - 110 016  
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