



# Curriculum Framework

## Bachelor of Education - Special Education

**B.Ed.Spl.Ed. LD.**

**(Two Years Duration)**

**Norms, Regulations & Course Content**

**2024**

**Effective from Academic Session 2024-25**

**REHABILITATION COUNCIL OF INDIA**

*(Statutory Body of the Ministry of Social Justice & Empowerment)*

Department of Empowerment of Persons with Disabilities (Divyangjan)

Government of India

**B-22, Qutab Institutional Area New Delhi – 110 016**

**Email:** [rehabstd@nde.vsnl.net.in](mailto:rehabstd@nde.vsnl.net.in), [rehcouncil\\_delhi@bol.net.in](mailto:rehcouncil_delhi@bol.net.in)

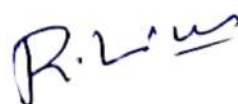
**[www.rehabcouncil.nic.in](http://www.rehabcouncil.nic.in)**



## Index

Sl. No.	Details	Page No.
1.	Bachelor of Education - Special Education (B.Ed.Spl.Ed.) Programme Framework	
2.	Norms and Regulations for Open and Distance Learning Programme B.Ed.Spl.Ed.(ODL)	
2a	Semester wise curriculum framework for B.Ed. Spl. Ed. (ODL)	
3.	Area A – Core Courses	
4.	Area B – Cross Disability and Inclusion Courses	
5.	Area C – Disability Specialisation Courses	
5a	Autism Spectrum Disorders	
5b	Hearing Impairment	
5c	Learning Disability	
5d	Mental Retardation / Intellectual Disability	
5e	Multiple Disabilities	
5f	Visual Impairment	
6.	Area D – Enhancement of Professional Capacities (EPC)	
7.	Minimum Qualification for the appointment of faculty in Special Education	
8.	Norms for faculty requirement	
9.	Expert Committees	
10.	Coordinators	













# Bachelor of Education - Special Education (B.Ed. Spl.Ed.) Programme

## I. PREAMBLE

Rightly said, 'Teaching is a passion more than a profession and it creates all other professions by not just providing information but also generating inspiration'. Therefore, though the conventional teacher-centred education has changed to a more student-centred approach, the place of the teacher; rightly addressed as the 'Guru' in the Indian tradition remains indisputable. This is seen right from NEP (1966) based on the Kothari Commission, which recognized that the quality, competence, of teachers are undoubtedly the most significant contributory factor to the recent NEP (2020) which upholds teachers' role in national development. Fifty-six years since the first policy was published, the teachers and the teacher education are at the centre of the fundamental reforms in the education system for 'all' children. The NEP 2020 reiterates the global education development agenda reflected in the Goal 4 (SDG4) of the 2030 Agenda for Sustainable Development. It seeks to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all" by 2030. A special emphasis has been provided to include the Socio-economically disadvantaged (SEDGs) which includes the Divyangjan. The policy highlights that quality education for 'all' children is the key to India's continued ascent, and leadership on the global stage and will facilitate the economic growth, social justice and equality, scientific advancement, national integration, and cultural preservation. NEP 2020 is in complete consonance with the principles and provisions of the RPWDA Act (2016) for empowerment of persons with disabilities. This includes (a) respect for inherent dignity, individual autonomy including the freedom to make one's own choices, and independence of persons; (b) non-discrimination; (c) full and effective participation and inclusion in society; (d) respect for difference and acceptance of persons with disabilities as part of human diversity and humanity; (e) equality of opportunity; (f) accessibility; (g) equality between men and women; (h) respect for the evolving capacities of children with disabilities and respect for the right of children with disabilities to preserve their identities.

The Rehabilitation Council of India (RCI) established in 1992, is a statutory body. It functions under the Department of Empowerment of Persons with Disabilities (Divyangjan) (DoEPwD), Ministry of Social Justice & Empowerment, Govt. of India and is solely responsible for regulating and monitoring the professional of development and other training programs in the field of disability. These programs are offered both face to face and via distance mode through Open Universities across India. RCI also maintains and renews registrations of qualified personnel and professionals in its Central Rehabilitation Register (CRR) for which Continuous Rehabilitation Education (CRE) are conducted in the field of Rehabilitation and Special Education. RCI revises its syllabi from time to time so that the learners undergoing the programs are attuned to the current trends and futuristic requirements.

The present syllabi of B.Ed Special Education is revised keeping in view the provisions of RPWD Act (2016) and the NEP (2020). The courses revised includes introduction to disabilities that would sensitise the learners about the 21 disabilities and its differential needs

with respect to accessibility, reasonable accommodations and facilitating effective participation. The course on education of children with disabilities that is based on the Supreme Court guidelines will help learners understand their role in various educational set ups. A course in supportive skills for education of students with disabilities endeavours to prepare the learners with basic essential skills for orientation mobility, Braille, Indian Sign Language and Educational bilingualism. The syllabi has the latest technology and will prepare the learners to undertake pedagogy using the suggested skills of enhancing communication, creativity, critical thinking and collaborations. The course on Life skills across life span and the employability module will assist the learners in preparation of their careers and contribute for empowerment of persons with disabilities.

## II. OBJECTIVES

The B.Ed.Spl.Ed. programme aims to develop Special Education teachers/Educators for children with disabilities for various settings (including Inclusive, Special, Open School and Home-Based Education). The B.Ed. (Special Education) programme will prepare human resources to enable them to acquire knowledge and develop competencies and skills to impart education and training effectively to children with disabilities as well as all other children. The programme is based on the provisions of RPWD Act (2016) and the National Education Policy, (NEP) (2020). After completing the B.Ed. (Special Education) programme the learners will:

- a. **Acquire knowledge & skills about human development, contemporary Indian education, and pedagogy of various school subjects and assessment for learning.**
- b. **Acquire knowledge & skills about nature and educational needs of children with disabilities as well as of a few select specific disabilities.**
- c. **Acquire concepts, knowledge and skills to prepare learners with disabilities to the meet the aspiration of nation and conserves its values, traditions and culture as enshrined in NEP, 2020.**
- d. **Develop conceptual understanding of education provisions and skills for working with children with various disabilities in Special and inclusive settings.**
- e. **Enhance knowledge and skills for professional development.**





with respect to accessibility, reasonable accommodations and facilitating effective participation. The course on education of children with disabilities that is based on the Supreme Court guidelines will help learners understand their role in various educational set ups. A course in supportive skills for education of students with disabilities endeavours to prepare the learners with basic essential skills for orientation mobility, Braille, Indian Sign Language and Educational bilingualism. The syllabi has the latest technology and will prepare the learners to undertake pedagogy using the suggested skills of enhancing communication, creativity, critical thinking and collaborations. The course on Life skills across life span and the employability module will assist the learners in preparation of their careers and contribute for empowerment of persons with disabilities.

## II. OBJECTIVES

The B.Ed.Spl.Ed. programme aims to develop Special Education teachers/Educators for children with disabilities for various settings (including Inclusive, Special, Open School and Home-Based Education). The B.Ed. (Special Education) programme will prepare human resources to enable them to acquire knowledge and develop competencies and skills to impart education and training effectively to children with disabilities as well as all other children. The programme is based on the provisions of RPWD Act (2016) and the National Education Policy, (NEP) (2020). After completing the B.Ed. (Special Education) programme the learners will:

- a. Acquire knowledge & skills about human development, contemporary Indian education, and pedagogy of various school subjects and assessment for learning.
- b. Acquire knowledge & skills about nature and educational needs of children with disabilities as well as of a few select specific disabilities.
- c. Acquire concepts, knowledge and skills to prepare learners with disabilities to the meet the aspiration of nation and conserves its values, traditions and culture as enshrined in NEP, 2020.
- d. Develop conceptual understanding of education provisions and skills for working with children with various disabilities in Special and inclusive settings.
- e. Enhance knowledge and skills for professional development.



### III. NOMENCLATURE

Nomenclature of B.Ed.Spl.Ed. programme should be as per UGC Notification No. F.5-1/2013 (CPP-II) of 2014 and the new nomenclature will be Bachelor of Education – Special Education (Name of Specialization in Disability).

Example: For Visual Impairment specialization, the nomenclature shall be Bachelor of Education – Special Education (Visual Impairment). The abbreviated form shall be as B.Ed.Spl.Ed.(VI).

### IV. PROGRAMME STRUCTURE

#### B. Ed. Spl. Ed. (ASD/HI/ID/ MD/SLD/VI) 2 Years

Code	Area	Courses (Papers)	Credit	Hours	Instructional Hours	Notional Hours
A	THEORY: Core Courses	5	10	300	300	-
B	Cross Disability and Inclusive Education Courses	6	12	360	300	90
C	THEORY: Disability Specialisation Courses	5	10	300	300	-
D	Enhancing Professional Capacities (EPC) Courses	3	6	180	90	90
E	Practical related to Cross-Disability and Inclusion	4	16	480	-	480
F	Practical related to Disability Specialization	4	24	720	-	720
G	Employability Skills	1	2	60	-	60
	<b>Total</b>	<b>25</b>	<b>80</b>	<b>2400</b>	<b>960</b>	<b>1440</b>

\* B5 & B6 are skill-based courses and each includes 45 Practical Hours.

# 960 hours – Theory & 1440 hours – Practical (Weightage: 60% practical & 40 % Theory)

\*The syllabus is provided for a program of two years duration. Universities have the flexibility to distribute the courses into semester pattern by maintaining the prescribed total hours and credits of RCI which are as per the NCrf (2023) guidelines.

#### AREA A: CORE COURSES

Course Code	Course Name	Credit	Hours
A1	Human Growth & Development	2	60
A2	Contemporary India and Education	2	60
A3	Learning, Teaching and Assessment	2	60
A4	Pedagogy of Teaching (Special Reference to Disability) Any one a : Science (Special Reference to Disability) b: Mathematics (Special Reference to Disability) c: Social Studies (Special Reference to Disability)	2	60
A5	Pedagogy of Teaching (Special Reference to Disability) Any one d: Hindi / Regional Language (Special Reference to Disability) e: English (Special Reference to Disability)	2	60
	<b>Total</b>	<b>10</b>	<b>300</b>



## VII. WORKING DAYS & 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 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 Learner shall have to be 80% for all course work and 90% for all practicals including project work/Dissertation work/internship (5% attendance may be condoned by the head of institution on genuine grounds).

## VIII. ELIGIBILITY FOR ADMISSION

- (a) Candidates with at least fifty percent marks either in the Bachelors Degree and/or in the Masters degree in Sciences/ Social Sciences/ Humanities, Bachelor's in Engineering or Technology with specialization in Science and Mathematics with 55 % marks or any other qualification equivalent thereto, are eligible for admission to the programme.
- (b) The reservation and relaxation for SC/ST/OBC/PWD and other categories shall be as per the rules of the Central Government/ State Government, whichever is applicable.

## IX. ADMISSION

Admission Procedure: as per University norms.

## X. PROGRAMME PATTERN

The programme has been developed on Semester basis. RCI has proposed 2000 marks in view of disability specific specialization.

## XI. PASSING MINIMUM

Minimum 50% marks are essential in all courses for passing in the programme. However, the University may exercise some flexibility or Grace Marks as per University norms.

## XII. 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 shall take the examinations subsequently according to the changed syllabus/ regulations/ as per university norms.

## XIII. FACULTY-STUDENT RATIO

The faculty-student ratio in the area of B.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.

## XIV. 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.*

#### **XV. AWARD OF DEGREE**

The affiliating Universities will award degree in Bachelor of Education Special Education (Area of Specialisation). The areas of specialisation provided are Autism Spectrum Disorders (ASD), Hearing Impairment (HI), Learning Disability (LD), Mental Retardation/ Intellectual Disability (MR/ID), Multiple Disabilities (MD) and Visual Impairment (VI). For example in the area of Hearing Impairment the degree awarded will be B.Ed.Spl.Ed. (HI). While issuing degree certificate, the Universities are advised to clearly spell out the area of specialization and mention as a statement that the passed out can teach in all settings and other disabilities (cross disabilities)

#### **XVI. PRACTICING SCHOOLS**

**Special & Inclusive School - Own Special School/ MoU with Special & Inclusive Schools or centres, 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. Special Schools for ASD and LD is not an essential condition. With a precaution that students with disability should not be overstressed. 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.**



# Human Growth & Development

Course Code: A1

Credit: 02

Hours: 60

## Introduction

This course is designed to enable learners to become familiar with the dynamic aspects of human growth and development over the life span. Major theoretical perspectives in developmental psychology are included. Learners will gain a deeper understanding of transitions between major life phases, and a broad knowledge of development within each life stage. Through close observation of children in their natural environments the learners would be able to situate their theoretical knowledge within realistic frames. The course content will help learners to apply the knowledge in their profession.

## Learning outcomes

After studying this course the student- teachers will be able to

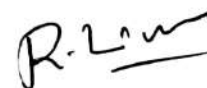
- Explain the process of development with special focus on infancy, childhood and adolescence.
- Summarize the theoretical approaches on Human Development
- Critically analyze developmental variations among children.
- Comprehend adolescence as a period of transition and threshold of adulthood.

## Unit1: Approaches to Human Development

- 1.1 Human development as a discipline from infancy to adulthood
- 1.2 Concepts and Principles of development
- 1.3 Developing Human- Stages (Prenatal development, Infancy, Childhood, Adolescence, Adulthood)
- 1.4 Influence of Nature and Nurture on Development (Physical, Sensory- perceptual, Cognitive, Socio-emotional, Language & communication, Social relationship)
- 1.5 Domains of Development (Physical, Sensory- perceptual, Cognitive, Socio-emotional, Language & communication, Social relationship)

## Unit 2: Theoretical Perspectives on Human Development

- 2.1 Psychodynamic Theories
  - 2.1.1 Sigmund Freud's Psychoanalytic Theory
  - 2.1.2 Erikson's Psychosocial Theory
- 2.2 Behaviourist Theories:
  - 2.2.1 Ivan Pavlov's Classical Conditioning Theory
  - 2.2.2 B. Frederick Skinner's Operant Conditioning Theory
- 2.3 Humanistic Theory and Social Theory
  - 2.3.1 Abraham Maslow's Theory
  - 2.3.2 Lev Vygotsky's Sociocultural Theory
- 2.4 Cognitive Theory



2.4.1 Jean Piaget's Theory

2.5 Ecological theory

2.5.1 Bronfenbrenner's Ecological Systems Theory

### **Unit 3: Prenatal and Early years (Zero -Eight years)**

3.1 Prenatal development: Conception, stages and influences on prenatal development

3.2 Birth and Neonatal development: Screening the newborn -APGAR Score, Reflexes and responses, neuro-perceptual development

3.3 Milestones and variations in Development

3.4 Environmental factors influencing early childhood development

3.5 Role of play in enhancing development

### **Unit 4: Early Adolescence (From nine years to eighteen years)**

4.1 Emerging capabilities across domains of physical and social emotional

4.2 Emerging capabilities across domains related to cognition - metacognition, creativity, ethics

4.3 Issues related to puberty

4.4 Gender and development

4.5 Influence of the environment (social, cultural, political) on the growing child

### **Unit 5: Transitions into Adulthood**

5.1 Psychological well-being

5.2 Formation of identity and self-concept

5.3 Emerging roles and responsibilities

5.4 Life Skills and independent living

5.5 Career Choices

### **Engagement with the field as part of course as indicated below**

#### **Hands on Experience**

1. Observe children in early childhood education programme. Assess a child's strengths and needs across all developmental and behavioral dimensions in the early childhood years and record
2. Critically evaluate the intervention programme related health, nutrition and Education of young children
3. Discuss the theoretical approaches of human development in the seminar/workshop in the classroom
4. Writing Journal for reflection and case study

#### **Suggested Readings**

- Berk, L. E. (2000). Human Development. Tata Mc.Graw Hill Company, New York.
- Berk, L.C. (2008). Child Development, New Delhi: Prentice Hall of India (Pvt.) Ltd.
- Brisbane, E. H. (2004). The developing child. Mc.Graw Hill, USA.



- Cobb, N. J. (2001). The child infants, children and adolescents. Mayfield Publishing Company, California.
- Elizabeth B. Hurlock (1980). *Developmental Psychology: A Life-Span Approach*, Prentice Hall, New Delhi.
- Hurlock, E. B. (2005). Child growth and development. Tata Mc.Graw Hill Publishing Company, New York.
- Hurlock, E. B. (2006). Developmental Psychology- A life span approach. Tata Mc.Graw Hill Publishing Company, New Delhi.
- Meece, J. S., & Eccles J. L (Eds) (2010). Handbook of Research on Schools, Schooling and Human Development. New York: Routledge.
- Mittal, S. (2006). Child development- Experimental Psychology. Isha Books, Delhi.
- Nisha, M. (2006). Introduction to child development, Isha Books, Delhi.
- Papalia, D. E., & Olds, S. W. (2005). Human development. Tata Mc.Graw Hill Publishing Company, New York.
- Santrock, J. W. (2006). Child Development., Tata Mc.Graw Hill Publishing Company, New York.
- Santrock, J. W. (2007). Adolescence. Tata Mc.Graw Hill Publishing Company, New Delhi.

R-2000

Singh

Handwritten signature or initials.

## Contemporary India and Education

Course Code: A2

Credits: 02

Hours: 60

### Introduction

This course will enable learners to explore education from philosophical and sociological perspective and gain insights into diverse communities, children, and schools. The course traces the educational developments in the historical context leading to contemporary India. The course also includes various commissions and policies and issues and trends in the field of education, special and inclusive education.

### Objectives

After completing this Course, the learner should be able to:

- Explain the concept and scope of education and the philosophical perspectives to understand education.
- Analyze the role of educational system in the context of Modern Ethos.
- Discuss the concept of diversity and describe the strategies for addressing diverse learning needs of the children with disabilities.
- Develop an understanding of the trends, issues, and challenges faced by the contemporary Indian Education in national and global contexts.
- Critically analyze the historical development of education in India in general and education of children with disabilities

### Unit 1: Philosophical Foundations of Education

- 1.1. Concept and Nature of Education: Concept of Education (Meaning and definition), Aims of Education (Individual, Social and Democratic), Scope of education; Conceptual distinction between Education and Schooling, Learning, Training, Teaching, Instruction.
- 1.2. Agencies of Education: School, family, community and media as agencies of education.
- 1.3. Schools of Philosophy: Idealism, Naturalism, Pragmatism, Existentialism, Humanism, and Constructivism as Schools of Philosophy
- 1.4. Classical Indian Philosophies: Vedanta Darshan, Sankya Darshan, Buddhism and Jainism
- 1.5. Contribution of Indian Philosophers: Sri Aurobindo, Mahatma Gandhi, Rabindranath Tagore, J. Krishna Murthy, Sonam Wangchuk

### Unit 2: Understanding Diversity

- 2.1. Concept and Types of Diversity: Concept, Nature and Types of Diversity (Gender, linguistic, cultural, socio-economic and disability),
- 2.2. Girl child with disability, twice exceptionality; Disability as a Social and Political Construct;
- 2.3. Global Perspective: United Nations mandate on Disability, International Classification of Functioning, Disability and Health (ICF 2001 by WHO), Impairment, Disability and Handicap (IDH) (Classified by the WHO 1980),
- 2.4. Diversity and learning; Attributions to diversity in learning, embracing diversity in



schools, equity and inclusion

- 2.5. Gender Equality as a Sustainable Development Goal (UN SDG5), Good Health and Wellbeing as a Sustainable Development Goal (UN SDG3), Quality Education as a Sustainable Development Goal (UN SDG4), Reduced Inequality as a Sustainable Development Goal (UN SDG10)

### **Unit 3: Commissions, Acts and Policies on Education in General and Children with Disabilities**

- 3.1. Constitutional Provisions: Reflecting on ideas of Equality, Liberty, Secularism, and Social Justice; Constitutional Provisions on Right to Education, Women Education, Education for the Weaker Section and Minorities, Education for the Diverse Need Sections.
- 3.2. National Commissions University Education Commission (1948-49), Secondary Education Commission (1952-53), Education Commission (1964-66); National Policy on Education (NPE 1968), National Policy of Education (NPE 1986 and POA1992)
- 3.3 National Education Policy (NEP, 2020), National Curriculum Framework (NCF, 2005), National Curriculum Framework for Teacher Education (NCFTE, 2009), National Curriculum Framework for School Education (NCFSE, 2023)
- 3.4. International Conventions and Policies: Salamanca Declaration and Framework, 1994; UNCRPD, 2006 (United Nations Committee on Right of Persons with Disabilities); MDG, 2015 (The Millennium Development Goals Report); INCHEON strategies (United Nations effort, Incheon Gan 2030); Biwako Millennium Framework.
- 3.5. National Acts: RCI Act, 1992, PWD (Persons with Disability) Act, 1995, NT (National Trust) Act, 1999, RTE Act (2009 & 2012) (Right to Education); The Right of Persons with Disability Act 2016.

### **Unit 4: Development in School Education and Equal Educational Opportunity**

- 4.1. Landmarks in Development of Education of Children with Disabilities: concept of disability in Surgeon Report, Disability in Charter Act 1823, Central Advisory Board of Education (CABE 1923) on children with hearing impairment (sign language), Indian perspective on Disability (Divyang Jan)
- 4.2. Right to Education and Universal Access; Issues of Universal enrolment, Universal retention, and Universal learning;
- 4.3. Issues of quality and equity: Physical, economic, social, cultural, language issues in education (addressing multilingual practices of the children)
- 4.4. Meaning of equality and constitutional provisions: equity and equality, prevailing nature and forms of inequality, including dominant and minority groups and related issues; inequality in schooling: public-private schools, rural-urban schools, single teacher schools and other forms of inequalities such as regular and distance education systems.
- 4.5. Programmes and Schemes: IEDC (1974, 1983) (Integrated Education for the Disabled Children), Samarga Shiksha Abhiyan [SSA (2000, 2011) (Sarva Shiksha Abhiyan), RMSA, 2009 (Rashtriya Madhyamik Shiksha Abhiyan)], IEDSS, 2009 (Inclusive Education of the Disabled at the Secondary Stage)

## Unit 5: Challenges and Trends in Education

- 5.1. Challenges of education across different levels from foundational to secondary stage
- 5.2. Trends in delivery of educational service: inclusive education as a right based model, complementarity of inclusive and special schools, Community participation and community-based education
- 5.3. Professional Development of Teachers: Aspiration and Qualities of Teachers, Professional Development of Teachers, In-service Teacher Education and Professional Development of Teachers
- 5.4. Professional Ethics of the Teachers and Its Importance, Professional Identity of Teachers, Teacher as a Researcher, Teacher as a Facilitator
- 5.5. Strategies for addressing the Issues of Professional Development of Teachers, National Education Policy (NEP 2020) on Professional Development of Teachers

### Course work/Practical/Field Engagement

- **Assignment:** Prepare and submit an assignment of 1000 words describing the inequality in schooling and how the schools can address this challenge.
- **Visit:** Visit to a special school and an inclusive school of your locality. Interview any 5 students from each school to find out that they like most in schools, that they dislike and problems they face. Prepare a report and submit.
- **Group Activity:** organize a an exhibition on different Indian philosophers and their contribution

### Transaction

Learners' engagement through interactive lectures, group discussion through case study and problem-based approach s as well as submission of assignments. The learning further needs to be strengthened through practicum activities, field engagement through visit. The assessment also needs to be in continuous basis.

### Recommended Readings

- **Convention on the Rights of the Child** Adopted and opened for signature, ratification and accession by General Assembly resolution 44/25 of 20 November 1989 entry into force 2 September 1990, in accordance with article 49, <https://www.ohchr.org/sites/default/files/Documents/ProfessionalInterest/crc.pdf>
- **Dimitriadi, S. (2014).** Diversity, special needs, and inclusion in early year education. SAGE India.
- **DoEPwD (2016).** The Rights of Persons with Disabilities Act, Ministry of Social Justice and Empowerment, Govt. of India, New Delhi. <https://www.iitg.ac.in/eo/sites/default/files/RPwDAAct2016.pdf>
- **DoSEL (2020).** National Education Policy-2020, Department of School Education and Literacy, Ministry of Human Resource Development (now Ministry of Education), New Delhi.
- **DoSEL (2023).** National Curriculum Framework for School Education 2023. , Department of School Education and Literacy, Ministry of Education), New Delhi.





- [https://www.education.gov.in/sites/upload\\_files/mhrd/files/ncf\\_2023.pdf](https://www.education.gov.in/sites/upload_files/mhrd/files/ncf_2023.pdf)
- DoSEL (2023). National Guidelines and Implementation Framework on Equitable and Inclusive Education, Department of School Education and Literacy, Ministry of Education, New Delhi.
  - DoSEL(2009). The Right of Children to Free and Compulsory Education Act, 2009. Ministry of Human Resource Development (now Ministry of Education), New Delhi. [https://www.indiacode.nic.in/bitstream/123456789/13682/1/rte\\_act\\_2009.pdf](https://www.indiacode.nic.in/bitstream/123456789/13682/1/rte_act_2009.pdf)
  - Jha, M. M. (2002). School Without Walls: Inclusive Education for All. Oxford, Heinemann.
  - Julka, A., Mukhopadhyay, S., Vyas, S., Sharma, M, Anupriya, C., & Salin, D. (2014). Including Children with Special Needs: Primary Stage. NCERT, New Delhi
  - Mehra D. D. (2009). Education in Emerging Indian Education, Indian Education. Ludhiana: Tondan Publications, Books Market.
  - MHRD (1968). National Policy on Education, 1968. Ministry of Human Resource Development (now Ministry of Education), New Delhi. [https://www.education.gov.in/sites/upload\\_files/mhrd/files/document-reports/NPE-1968.pdf](https://www.education.gov.in/sites/upload_files/mhrd/files/document-reports/NPE-1968.pdf)
  - MHRD(1986). National Policy on Education 1986. Ministry of Human Resource Development (now Ministry of Education), New Delhi. <https://ncert.nic.in/pdf/nep/npe86.pdf>
  - MSJE (2006). National Policy for Persons with Disabilities 2006. Ministry of Social Justice and Empowerment, Government of India, New Delhi.
  - 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.
  - Murthy, S. K. (2009). Philosophical and Sociological Foundation of Education. Ludhiana: Tondan Publication. Books Market.
  - Narulla, S. & Naik, J. P. (1964). Student History of Education in India. Mc Millian & Co., of India Pvt. Ltd.
  - National Policy and Education. (1986). MHRD. New Delhi: Govt. of India.
  - Pathak, K. R. (2007). Education in the Emerging India. New Delhi: Atlantic Publishers.
  - Pathak, R. P. (2009). Philosophical and Sociological Foundations of Education. New Delhi: Kanishka Publishers
  - Pangatungan, M. (2022). Special education book: a resource book for teachers and other professionals servicing students with disabilities. Palmetto Publishing.
  - Siddiqui, M. H. (2009). Philosophical and Sociological foundation of Education. New Delhi: APH Publishing Corporation, APM Publication Corporation.
  - Singh Y. K. (2007). Philosophical. Foundation of Education. New Delhi: APH Publication Corporation.
  - Thakur, A. S., and Berwal, S. (2007). Education in Emerging Indian Society. New Delhi: National Publishing House.
  - Tilak J.B.G (2018).\_ Education and development in India: critical issues in public policy and development. Springer Singapore.

- UNESCO (2004). Education for All: The Quality Imperative. EFA Global Monitoring Report. Paris
- UNESCO (2009). Report on Education for sustainable development.

R.2: us

Amjad

✓

✓



## Learning, Teaching and Assessment

Course Code: 3

Credits: 02

Hours: 60

### Introduction

This Course will initiate learners to understand learning theories and how these theories translate into teaching and learning actions. Assessment of learning as a continuous process is focused to identify the progress or difficulties faced by the students. The course addresses the learning needs of persons with disabilities, and the supports that the teacher needs to address in diverse educational settings.

### Objectives

After completing this course the learner will be able to:

- Discuss the theories of learning and intelligence and their applications for teaching children
- Analyse the learning process, nature and theory of motivation
- Describe the stages of teaching and learning and the role of teacher
- Demonstrate understanding of the teaching learning process including focus on students with and without diverse learning needs,
- Analyse the scope and role of assessment in teaching learning process including focus on students with and without disabilities.

### Unit 1: Human Learning and Intelligence

1.1 Human learning: meaning, definition and concept formation

1.2 Learning theories:

- Behaviourism: e.g. Pavlov, Thorndike, Skinner
- Cognitivism: e.g. Piaget, Bruner
- Social Constructivism: e.g. Vygotsky, Bandura

1.3 Intelligence:

- Concept and definition

- Theories: e.g. Two-factor, Multifactor, Triarchic Theory (Robert Steinberg)

1.4 Creativity: Concept, Definition and Characteristics

1.5 Implications for Classroom teaching and learning in special and inclusive class room settings

### Unit 2: Learning Process and Motivation

2.1 Sensation: Definition and Sensory Process

2.2 Attention: Definition and Affecting Factors

2.3 Perception: Definition and Types

2.4 Memory, Thinking, and Problem Solving

*R. L. M.* *Amy J. ...* *[Signature]* *[Signature]*

2.5 Motivation: Nature, Definition and Maslow's Theory

### **Unit 3: Teaching Learning Process**

3.1 Maxims of Teaching

3.2 Stages of Teaching: Plan, Implement, Evaluate, Reflect

3.3 Stages of Learning: Acquisition, Maintenance, Generalization

3.4 Learning Environment: Psychological, Social and Physical

3.5 Leadership role of teacher in special and inclusive Classroom, school and community

### **Unit 4: Overview of Assessment and School System**

4.1 Assessment: Conventional meaning and constructivist perspective

4.2 'Assessment of Learning' and 'Assessment for Learning': Meaning and difference

4.3 Comparing and contrasting assessment, evaluation, measurement, test and examination

4.4 Formative and summative evaluation, Curriculum Based Measurement, with particular references to students with disabilities/diverse learning needs

4.5 Key concepts in evaluation: e.g. marks, credit, grading, choice, alternate certifications, transparency, internal-external proportion, improvement options

### **Unit 5: Assessment: Strategies and Practices**

5.1 Strategies: e.g. Oral, written, portfolio, observation, project, presentation, group discussion, open book test, surprise test, untimed test, team test, records of learning landmark, cloze set/open set and other innovative measures - Meaning and procedure

5.2 Typology and levels of assessment items: e.g. Multiple choice, open ended and close ended; direct, indirect, inferential level

5.3 Analysis, reporting, interpretation, documentation, feedback and pedagogic decisions

5.4 Assessment of learners with diverse learning needs: Exemptions, concessions, adaptations and accommodations;

5.5 School examinations: Critical review of current examination practices and their assumptions about learning and development; Efforts for exam reforms: Comprehensive and Continuous Evaluation (CCE), National Curriculum Framework (NCF), Right to Education Act (RTE, 2009), National Policy on Education (NEP, 2020), Rights of Persons with Disabilities Act ( RPwD Act, 2016)

### **Transaction**

The concepts and theoretical precepts included in this course should be explained with reference to children with and without disabilities. The effort of transaction should be to enhance the



understanding of how learning occurs in different settings and what can be the suitable means of its assessment. Evaluation may be done by asking the learners to interact with children with and without disabilities in any learning environment and present a report of the same.

#### **Course work/Practical/Field Engagement**

1. Observe children in a class in special, regular and inclusive schools respectively and describe similarities and differences in teaching-learning contexts and submit a report.
2. Prepare a Self-study report on individual differences among learners.
4. Compile three curriculum based assessment tools in any one subject area by doing a web search, write a report.

#### **Recommended readings**

- Amin, N. (2002). Assessment of Cognitive Development of Elementary School Children: A Psychometric Approach. New Delhi: Jain Book Agency.
- Chauhan, S.S. (2013). Advanced Educational Psychology. New Delhi: Jain Book Agency.
- King-Sears, E.M. (1994). Curriculum Based Assessment in Special Education. San Diego: Singular Publishing Group.
- Panch, R. (2013). Educational Psychology: Teaching and Learning Perspective. New Delhi: McGraw Hill Education (India) Private Limited.
- Salvia, J., Ysseldyke, J. E. and Bolt, S. (2007). Assessment in Special and Inclusive Education. Boston: Houghton Mifflin Company.
- Whitcomb, S., & Merrell, K. W. (2012). Behavioral, Social, and Emotional Assessment of Children and Adolescents, New York: Routledge.
- Woolfolk, A., Misra, G., & Jha, A.K. (2012). Fundamentals of Educational Psychology, (11<sup>th</sup> ed). New Delhi: Pearson Publication.
- <https://sites.google.com/site/webresourcesforlearning/home>
- <https://www.cambridgeenglish.org/teaching-english/professional-development/cambridge-english-teaching-framework/teaching-learning-and-assessment/>
- <http://teachinglearningresources.pbworks.com/w/page/19919565/Learning%20Theories>
- <https://www.ncbi.nlm.nih.gov/books/NBK562189/>

R-12

*[Handwritten signature]*

*[Handwritten signature]*

## Pedagogy of Teaching Science

Course Code: A 4 (a)  
Hours: 60

Credits: 02

Contact

### Introduction

The course will help the learners to generate their student's interest for learning science and develop a scientific attitude. It is designed to equip the learners to teach science using innovative methods, techniques and teaching learning material to students with & without disabilities.

### Objectives

After completing the course the student-teachers will be able to

- Explain the role of science in day to day life and its relevance to modern society.
- Describe the aims and objectives of teaching science at school level.
- Demonstrate and apply skills to select and use different methods of teaching the content of sciences.
- Demonstrate competencies of planning for teaching sciences, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences.
- Demonstrate skills to design and use various evaluation tools to measure learner achievement in sciences.

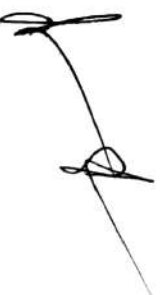
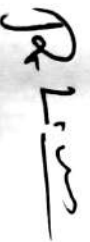
### Unit 1: Nature and Significance of Science

- 1.1 Nature, Scope, Importance and Value of Science
- 1.2 Science As An Integrated Area of Study
- 1.3 Science and Modern Indian Society: Relationship of Science and Society
- 1.4 Impact of Science with Special Reference to Issues related with Environment, Industrialization and Disarmament
- 1.5 Role of Science for Sustainable Development

### Unit 2: Planning for Instruction

- 2.1 Aims and Objectives of Teaching Science in Elementary and Secondary School
- 2.2 Bloom's Taxonomy of Educational Objectives and Writing Objectives in Behavioural Terms
- 2.3 Lesson Planning – Importance and Basic Steps. Planning Lesson for an Explanation, Demonstration, and Numerical Problem in Teaching of Sciences
- 2.4 Unit Planning – Format of A Unit Plan
- 2.5 Pedagogical Analysis: Meaning and Need. Guidelines for Conducting Pedagogical Analysis

### Unit 3: Approaches and Methods of Teaching Sciences





- 3.1 Pedagogic principles, Process Approach, Direct Experience Approach, Inductive-Deductive Approach
- 3.2 Lecture, Demonstration, Discussion, Problem-solving, Concept-mapping, Programmed Instruction, Team Teaching, Seminar, Computer Assisted Learning (CAL)
- 3.3 Project Method, Survey, Field-inquiry and Heuristic Method
- 3.4 Creating Different Situations of Learning Engagement: Group Learning, Individual Learning, Small Group, Cooperative (Peer-Tutoring, Jigsaw, etc.), Situated/Contextual Learning with reference to Children with Disabilities
- 3.5 Constructivist, phenomenological and computational thinking approaches and their application in Teaching Science

#### **Unit 4: Learning Resources with reference to Children with Disabilities for Teaching Science**

- 4.1 Teaching Learning Aids – Need, Importance, Selection, Use and Classification of Aids Based on Type of Experience, Audio Visual Aids, Multimedia, Charts, and Models (Tactile and Visual)
- 4.2 Importance of science learning and enrichment activities- Science Circles, Topic-based and Project-based club (eg. Eco-club, Health and well-being club), Science Exhibition, activities in tinkering laboratory, Science journals for learners, science-tech activities, and Significance of enrichment activities with reference to Children with Disabilities
- 4.3 The Science Laboratory-Planning organization of Lab, storage, adaptation in science lab and apparatus, science apparatus for all learners(UD-equipment), Assistive technology for learning science and Virtual/digital/app-based science laboratory, Safety of learners and scientific Equipments, Significance of science lab (physical/virtual) with reference to Children with Disabilities
- 4.4 Aquarium, Vivarium – Role in learning science, setting, care & maintenance
- 4.5 Museum, Botanical, Zoological and Herbal Garden: Role in learning science, project and field work activities.

#### **Unit 5: Assessment and Evaluation**

- 5.1 Assessment and Evaluation- Concept, Nature and Need, Flexibility in assessment
- 5.2 Norm Referenced & Criterion Referenced Evaluation, School based Assessment: Concept and Significance, Holistic Assessment
- 5.3 Tools and Techniques for Formative and Summative Assessments
- 5.4 Preparation of Diagnostic Test, Achievement Test and holistic development report card.
- 5.5 Adaptations of Evaluation Procedure With Reference To Children With Disabilities

#### **Transaction**

Transaction of this course will include active engagement of learners in science activities, interactive talks & lectures, demonstrations and observations, exposure to

varied settings-science labs, virtual labs, schools and classrooms, field-trips to science-park/garden/museum/other science-learning establishments, projects and assignments, participation in quizzes, seminars, exhibitions and competitions.

#### **Practical/ Field Engagement**

- Preparation of a multimedia presentation on a topic from Science content keeping students with disabilities in view.
- Developing an Action Research Plan on a problem related to teaching and learning of Sciences to students with disabilities to students with disabilities.
- Curricular adaptations for teaching Sciences to students with disabilities.
- Designing/adaptation in science apparatus to facilitate participation of children with disabilities in science-learning activities (any five of your choice).
- Exploring and using teaching-learning apps/e-content suitable to teach scientific concepts to children with disabilities in an inclusive classroom.

#### **Recommended Readings**

- Buxton, A. C. (2010). Teaching Science in Elementary and Middle School. NewDelhi: Sage Publications.
- Bybee, R. (2010). The teaching of science: 21st-century perspectives. Arlington, VA: NSTA Press, USA.
- Fensham, P.J. (1994). The content of Science: A constructive Approach to its Teaching and Learning. Washington, D.C: The Falmer Press.
- Gupta, V. K. (1995). Teaching and Learning of Science and Technology. New Delhi: Vikas Publishing House Pvt. Ltd.
- Joshi, S. R. (2005). Teaching of Science. New Delhi: A.P.H Publishing Corporation.
- Kelley, P., & Gale. G. (1998). Towards Excellence: Effective education for students with vision impairments. Sydney: North Rocks Press.
- Lawson, E. A. (2010). Teaching Inquiry Science in Middle School, New Delhi: Sage Publications.
- Layton, D. (1989). Innovations in Science and Technology Education, New Delhi: Sterling Publishers.
- Mani, M. N. G. (1992). Techniques of teaching blind children, New Delhi: Sterling Publishers.
- Mukhopadhyay, S., Jangira, N. K., Mani, M.N.G., & Raychowdhary, N. (1987). Sourcebook for training teachers of visually impaired, New Delhi: NCERT.
- Murray, L. J. (1988). Basic Skills – Science, Boston: John Murrey.
- NCERT (1982). Teaching Science in secondary schools, New Delhi: NCERT.
- NCERT (2013). Pedagogy of Science-Physical Science (Part-I). Textbook for B.Ed. New Delhi: NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))





- NCERT (2013). **Pedagogy of Science-Physical Science (Part-II)**. Textbook for B.Ed. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2016). **In-Service Training Programme Pedagogy of Science-Physical Science (Part-II)**. Textbook for B.Ed. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2019). **Pedagogy of Science. National Initiatives for School Heads' and Teachers Holistic Advancement**. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2019). **School Based Assessment. National Initiatives for School Heads' and Teachers Holistic Advancement**. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NIVH (1992). **Handbook for the teachers for the visually handicapped**, Dehradun
- Scholl, G.T. (1986). **Foundations of education for blind and visually handicapped children and youth**, New York: American Foundation for the blind.
- Sharma, R.C. (2005). **Modern Science teaching**, Delhi: Dhanpat Rai & Sons.
- Siddiqui, H. M. (2007). **Teaching science**, New Delhi: Balaji offset.
- Siddiqui, N.N., & Siddiqui, M.N. (1994). **Teaching of science today & tomorrow**, Delhi: Doaba House.
- Singh, V.K. (2014). **Teaching Science and Mathematics to all Children at the Secondary Level (Inclusive Education)**. In-service Teachers Professional Development (ITPD) package for teachers of the secondary stage. Department of Education in Science and Mathematics, New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2015). **Including Children with Special Needs-Upper Primary**. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- Starin, A., & Sund, B. (1983). **Teaching science through discovery**. Ohio: Charles E. Merrill Publishing Company
- Tripathi, S. (2004). **Teaching of Physical Science**, Delhi: Dominant Publications.
- UNESCO (1966). **Source Book for Science Teaching**, Paris: UNESCO.
- Vaidya, N. (2003). **Science Teaching in Schools**, New Delhi: Deep & Deep Publishers.
- Vanaja, M. (2006). **Teaching of Physical Science**, Hyderabad: Neelkamal Publications.
- Rao, V.K. (2004). **Science Education**. APH Publishing Corp., New Delhi.

# Pedagogy of Teaching Mathematics

Course Code: A4 (b)

Credits: 02

Hours: 60

## Introduction

The course will help the student-teachers to generate their student's interest for learning maths and develop dispositions towards the subject. It is designed to equip the learners to teach maths using innovative methods, techniques and teaching learning materials for children with & without disabilities.

## Objectives

After completing the course the student-teachers will be able to

- Explain the nature of Mathematics and its historical development with contribution of Mathematicians.
- Describe the aims and objectives of teaching Mathematics at school level.
- Demonstrate and apply skills to select and use different methods of teaching Mathematics.
- Demonstrate competencies of planning for teaching Mathematics, organizing laboratory facilities and equipment designing pupil centered teaching learning experiences.
- Demonstrate skills to design and use various evaluation tools to measure learner achievement in Mathematics.

## Unit 1: Nature of Mathematics

- 1.1 Meaning, Nature, Importance and Value of Mathematics
- 1.2 Axioms, Postulates, Assumptions and Hypothesis in Mathematics
- 1.3 Historical Development of Notations and Number Systems
- 1.4 Contribution of Mathematicians (Ramanujam, Aryabhata, Bhaskaracharya, Euclid, Pythagoras)
- 1.5 Perspectives on Psychology of Teaching and Learning of Mathematics- Constructivism, Enactivism, Vygotskyian Perspectives, and Zone of Proximal Development

## Unit 2: Objectives and Instructional Planning in Mathematics

- 2.1 Aims and Objectives of Teaching Mathematics in Elementary and Secondary Schools
- 2.2 Bloom's Taxonomy of Educational Objectives and Writing Objectives in Behavioural Terms
- 2.3 Lesson Planning- Importance and Basic Steps. Planning Lesson of Arithmetic, Algebra and Geometry
- 2.4 Unit Planning – Format of A Unit Plan

*R. L. M.* *Jyoti* *J. S.*



- 2.5 Pedagogical Analysis: Meaning and Need and Procedure for Conducting Pedagogical Analysis. Classification of Content, Objective, Evaluation, etc

### **Unit 3: Strategies for Learning and Teaching Mathematics**

- 3.1 Concept Formation and Concept Attainment: Concept Attainment Model for Learning and Teaching of Concepts
- 3.2 Learning By Exposition: Advanced Organizer Model
- 3.3 Methods of Teaching- Mathematics experiencing activities, Inquiry-based teaching-learning, Lecture, Discussion, Demonstration, Inductive-Deductive, Analytic-Synthetic, Problem-Solving, Project and Integrating Science, Technology, Engineering, Arts and Mathematics (STEAM) approach.
- 3.4 Techniques of Teaching Mathematics: Indian Knowledge System/Indigenous knowledge and practices, Oral Work, Written Work, Drill-Work, Brain- Storming and Computer Assisted Instruction (CAI), integration of arts, sports and science in teaching mathematics.
- 3.5 Creating Different Situations of Learning Engagement: Group Learning, Individual Learning, Small-Group, Cooperative (Peer-Tutoring, Jigsaw, etc.), Situational/ Contextual Learning and computational thinking,

### **Unit 4: Teaching-Learning Resources in Mathematics for Students with Disabilities**

- 4.1 Mathematics Laboratory- Concept, Need, and Equipment for Setting Up a Mathematics Laboratory, care and maintenance
- 4.2 Utilization of Learning Resources in Mathematics: Charts and Pictures, Weighing and Measuring Instruments, Drawing Instruments, Models, Concrete Materials, Surveying Instruments with reference to Children With Disabilities
- 4.3 Mathematics learning and enrichment activities-Mathematics Club, Topic-centred and project based clubs, Quiz and debate clubs, Maths Olympiads and competitions
- 4.4 Mathematics learning devices: Abacus, Cussionaire Rods, Fractional Discs, Napier Strips
- 4.5 Technological support in learning mathematics- Virtual mathematics laboratory, Maths learning apps, assistive technology, e-contents and other digital materials, Calculators, Computers, Smart Boards, Multimedia Presentations, and Special, adapted and universally designed mathematical learning aids for Children With Disabilities

### **Unit 5: Assessment and Evaluation for Mathematics Learning**

- 5.1 **Assessment** and Evaluation- Concept, Importance and Purpose, Flexibility in assessment.
- 5.2 **Error Analysis**, Diagnostic Tests, Identification of Hard Spots and Remedial Measures
- 5.3 **Tools and Techniques** for Formative and Summative Assessments of Learner Achievement in Mathematics, School Based Assessment in Mathematics and assessment of holistic development.

5.4 Preparation of Diagnostic, Achievement Test and holistic development report card.

5.5 Adaptations in Evaluation including techno-based evaluation Procedure for Students With Disabilities

### Transactions

Transaction of this course will include active engagement of learners in mathematics learning activities, interactive talks & lectures, demonstrations and observations, exposure to varied settings-mathematics labs, virtual labs, schools and classrooms, field-trips for mathematical survey and Indian Knowledge System, projects and assignments, participation in quizzes, workshops and seminars, exhibitions and competitions.

### Practical/ Field Engagement/ Project Work

- Preparation of a multimedia presentation on a topic with special reference to students with disabilities
- Designing procedures of assessment through multiple evidences to ensure understanding of mathematical concepts, skills and capacities (eg. Procedural fluency, Computational thinking, problem solving etc.)- designing individual and group activities for assessment, assignments, projects, real-life experiences, question papers, quizzes etc.
- Analyzing errors committed by school children in Mathematics and preparing a remedial plan
- Developing an Action Research proposal for a problem related to teaching and learning of Mathematics with reference to students with disabilities

### Recommended Readings

- Carey, L.M. (1988). Measuring and Evaluating School Learning. Allyn and Bacon, Boston.
- Chambers, P. (2010). Teaching Mathematics. Sage Publication, New Delhi.
- Chapman, L.R. (1970). The Process of Learning Mathematics. Pregamon Press, New York.
- David, A.H., Maggie, M.K., & Louann, H.L. (2007). Teaching Mathematics Meaningfully: Solutions for Reaching Struggling Learners, Canada: Amazon Books.
- David, W. (1988). How Children Think and Learn. Blackwell Publishers Ltd., New York.
- Gupta, H. N., & Shankaran, V. (1984). Content-Cum-Methodology of Teaching Mathematics. NCERT, New Delhi.
- James, A. (2005). Teaching of Mathematics. Neelkamal Publication, New Delhi.
- Keeley, P. K., & Cheryl, T. R. (2011). Mathematics Formative Assessment. Sage Publications. London.
- Kumar, S. (2009). Teaching of Mathematics. Anmol Publications, New Delhi.
- Mangal, S.K. (1993). Teaching of Mathematics. Arya Book Depot, New Delhi.

*R. L. ...*

*Shankaran*

*[Signature]*





- Mani, M. N. G. (1992). Techniques of Teaching Blind Children. Sterling Publishers, New Delhi.
- Mukhopadhyaya, S., Jangira, N. K., Mani, M.N. G., & Raychaudhary, N. (1988). Sourcebook for Training Teachers of Visually Handicapped. NCERT, New Delhi.
- NCERT (2012). Pedagogy of Mathematics. Textbook for B.Ed. New Delhi: NCERT.(available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2015). Including Children with Special Needs-Upper Primary Stage. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2019). Pedagogy of Mathematics. National Initiatives for School Heads' and Teachers Holistic Advancement. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2019). School Based Assessment. National Initiatives for School Heads' and Teachers Holistic Advancement. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2022). National Curriculum Framework for Foundational Stage. New Delhi:NCERT.  
(available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2023). National Curriculum Framework for School Education. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- Nemeth, A. (1973). Nemeth Code for Mathematics and Scientific Notation. American Printing House, Loviseville.
- Siddhu, K.S. (1990). Teaching of Mathematics. Sterling Publishers, New Delhi.
- Singh, V.K. (2014). Teaching Science and Mathematics to all Children at the Secondary Level (Inclusive Education). In-service Teachers Professional Development (ITPD) package for teachers of the secondary stage. Department of Education in Science and Mathematics, New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))

# Pedagogy of Teaching Social Science

Course Code: A 4 (c)

Credits: 02

Hours: 60

## Introduction

This course explores the scope of social science. It develops competencies in designing lesson plans and evaluations tools. It addresses the knowledge and understanding of the methodologies, approaches to teach social sciences at secondary level and also modify and adapt content-area curricula, materials and techniques for students with disabilities. The course also focuses on various skills and competencies that teachers need to develop.

## Objectives

After completing the course the student-teachers will be able to

- Explain the concept, nature and scope of social science.
- Develop competencies for designing unit and lesson plans, as well as tools of evaluation for social science teaching.
- Develop skills in preparation and use of support materials for effective social science teaching.
- Develop the ability to organize variety of learning and enrichment activities and community resources for promoting social science learning.

## Unit I: Nature of Social Sciences

- 1.1 Concept, scope and nature of social science
- 1.2 Difference between social sciences and social studies
- 1.3 Aims and objectives of teaching social science at school level
- 1.4 Significance of social science as a core subject
- 1.5 Role of social science teacher for an egalitarian society

## Unit II: Curriculum and Instructional Planning

- 2.1 Organization of social science curriculum at school level- considerations from Indian Knowledge System and rootedness in India, progressive from local to global, real and diverse, narratives and evidence-based, interdisciplinary, adequate, relevant and representations of socio-cultural capitals, livelihood and economy, democracy and governance, and humanistic values and environmental concerns.
- 2.2 Instructional Planning: Concept, need and importance
- 2.3 Unit plan and Lesson plan: need and importance
- 2.4 Procedure of Unit and Lesson Planning
- 2.5 Adaptation of unit and lesson plans for children with disabilities

## Unit III: Approaches to teaching of Social Science

- 3.1 Curricular approaches: a) Coordination, b) Correlational, c) Concentric, d)

R. L. ...

...

...



- Spiral, e) Integrated, f) Regressive
- 3.2 Methods of teaching social science: lecture, conversations, discussions and debates, socialized recitation, case-studies, evidence-survey, source-auditing, project method, Inquiry and analytic method, Reflective essays and critics, creativity (models and artefacts)
    - 3.2.1. Devices and techniques of teaching social studies – Narration, description, illustration, questioning, assignment, field trip, story-telling, Role play, Group and self-study, programmed learning, inductive thinking, Concept mapping, expository teaching and problem solving
  - 3.3 The Social Science Laboratory-Planning organization of Lab, storage, accessible lab, equipment and resource materials, Assistive technology for learning social science and Virtual/digital/app-based social science laboratory, Significance of social science lab (physical/virtual) with reference to Children with Disabilities
  - 3.4 Instructional material for teaching of social science: Time-lines & Genealogical charts, Maps & Globes, literatures and journals, textbooks and supplementary readers (in accessible formats), sources from ancient and contemporary arts, heritage and culture, museum multimedia, Television, Films & Filmstrips, Social science games and e-contents and digital materials
  - 3.5 Adaptations of curriculum and resource materials for teaching social sciences to children with disabilities

#### **Unit IV: Assessment and Evaluation of Learning in Social Science**

- 4.1 Assessment and Evaluation-Concept, nature and purpose, flexibility in assessment
- 4.2 Techniques of evaluating learner achievement in social Science: Written and Oral tests, Observation Tools, Work Samples, Portfolio, Rubrics.
- 4.3 Assessment: tools and techniques of School Based Assessment, assessment of holistic development
- 4.4 Construction of diagnostic test, teacher made achievement test and holistic development report card
- 4.5 Adaptations of Evaluation Procedure for children with disabilities

#### **Unit V: Social Science Teacher as a Reflective Practitioner**

- 5.1 Being a reflective practitioner- use of action research
- 5.2 Developing an Action Research Plan for solving a problem in teaching-learning of Social science
- 5.3 Case study- Need and Importance for a School Teacher
- 5.4 Development of a Professional Portfolio/ Teaching Journal
- 5.5 Competencies for teaching Social science to children with disabilities

#### **Transaction**

The student-teachers should be encouraged to read literature, research studies and articles. They will be encouraged to participate in journal clubs, social science circles, local economy survey, livelihood audits, role play in students' parliament, democratic

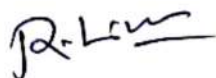
decision making, action-research (eg. e-commerce), case study (eg. digital economy), quizzes, seminars, field trips, lectures, demonstrations, school visits and observations to teach this course.

### Course Work/ Practical/ Field Engagement

- Develop an Action Research Plan on a problem related to teaching and learning in Social Science
- Adapt teaching learning materials for a child with disability
- Develop questions and achievement tests in social science
- Organize activities like quiz, mock-parliament, field trips & survey, exhibitions and any other social science enrichment activities in schools.
- Designing e-content related to social science curriculum for children with disabilities in an inclusive classroom.

### Recommended Readings

- Aggarwal, J. C. (2008). Principles, methods & techniques of teaching. Vikas Publishing House Pvt Ltd., Meerut.
- Aggarwal, J.C. (2008). Teaching of social studies: A practical approach. Vikas Publishing House Pvt Ltd., Meerut.
- Batra, P. (2010). Social Science Learning in Schools Perspective and Challenges. Sage Publications Pvt. Ltd., New Delhi.
- Chauhan, S. S. (2008). Innovations in teaching learning process. Vikas Publishing House Pvt Ltd., New Delhi.
- Dhand, H. (2009). Techniques of Teaching. APH Publishing Corporation, New Delhi.
- Duplass, J. A. (2009). Teaching elementary social studies. Atlantic Publishers, New Delhi.
- George, A. M., & Madam, A. (2009). Teaching Social Science in Schools. NCERT, New Delhi.
- Mangal, S.K. (2004). Teaching of Social Science, Arya Book Depot, Delhi.
- Mangal, U. (2005). Samajik Shikshan, Arya Book Depot, New Delhi.
- NCERT (2023). National Curriculum Framework for School Education. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2014). Package in Social Sciences for Professional Development of In-Service Teachers. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2019). Pedagogy of Social Science. National Initiatives for School Heads' and Teachers Holistic Advancement. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2019). School Based Assessment. National Initiatives for School Heads' and Teachers Holistic Advancement. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- Rai, B.C. (1999). Methods of Teaching Economics. Prakashan Kendra, Lucknow.
- Sharma, R.A. (2008). Technological foundation of education. R.Lall Books









Depot., Meerut.

- Sharma, R.N. (2008). Principles and techniques of education. Surjeet Publications, Delhi.
- Singh, Y.K. (2009). Teaching of history: Modern methods. APH Publishing Corporation, New Delhi.
- Stone, R. (2008). Best Practices for Teaching Social Studies: What Award-Winning Classroom Teachers Do. Corwin, CA.



**परिचय**

यह पाठ्यक्रम शिक्षार्थियों को हिंदी भाषा और साहित्य, निर्देशात्मक योजना और मूल्यांकन की प्रकृति को समझने में सक्षम बनाएगा। यह शिक्षार्थियों को समावेशी कक्षाओं में भाषा शिक्षण-अधिगम के सिद्धांतों पर आधारित पाठ की योजना तैयार करने एवं उससे संबंधित अधिगम-सामग्री के निर्माण करने में सहायक होगा। यह पाठ्यक्रम शिक्षार्थियों को हिंदी भाषा के गहन पहलुओं की विवेचना करने और हिंदी भाषा शिक्षण के दृष्टिकोण और वर्तमान प्रथाओं के बारे में जानने का अवसर प्रदान करेगा। भारतीय व अंतर्राष्ट्रीय संदर्भों के संबंध में यह पाठ्यक्रम शिक्षार्थियों में विश्लेषणात्मक और अनुसंधानात्मक कौशल-क्षमता का भी विकास करेगा। हिंदी भाषा शिक्षण, अन्य भाषा शिक्षणशास्त्र, भाषा अधिग्रहण, भाषा के बहुसांस्कृतिक पहलुओं और बहुभाषावाद से संबंधित मुद्दों के लिए भी एक आधार प्रदान करेगा।

**उद्देश्य & izLrqr ikB~,Øe }kjk शिक्षार्थी &**

- O;Dr rFkk lekt ds thou vksJ fodkl esa fgUnh Hkk'kk ds :ksxnku ls iffpr gksaxsA
- ewy/Hkwr Hkk'kk dks"kyksa vksJ Hkk'kk vf/kxe esa mudh Hkwfedk dk vuqHko djsaxsA
- bdkbZ fu;kstuvksJ ikB ;kstuk dh izfØ;k ds dq"ky gksaxsA
- fgUnh f"kk{k.k ds fo"V O;kogkfjd mn~ns";ksa ds fu/kkZj.k vksJ ys[ku esa [khe gksaxsA
- fgUnh f"kk{k.k ds vf/kxe y{;ksa dh izkfir ds fy, iz:kSt; f"kk{k.k fof/k;ksa dk iz;ksx djsaxsA
- fgUnh f"kk{k.k ds mn~ns"; dh lgt izkfir ds fy, lgk;d midj.kksa ds fuekZ.k vksJ mi;ksx esa n{g gksaxsA
- Hkk'kk vf/kxe esa fo|ky; vk/kkfjr vkadyu izfof/k ds mi;ksx dq"kyrkiwoZd djsaxsA
- Hkk'kk vf/kxe esa fo|kFFkZ;ksa dh dfBukb;ksa ds fujkdj.k ds fy, fØ;kRed vuqLa/kku dk iz;ksx djsaxsA

**ikB~,oLrq****bdkbZ १ & fgUnh भाषा dh izd'fr, iz;kST;rk और संवर्धन A**

- १.१ fgUnh Hkk'kk dk ukedj.k] lald`r ls fgUnh ds mn~Hko dh izfØ;kA
- १.२ fgUnh Hkk'kk esa mnwZ] vaxsth vksJ lald`r ls lekfo'V izR;;A
- १.३ fo"oHkk'kk vksJ Hkfo'; Hkk'kk ds :lk esa fgUnh के fodkl dk vkadyuA
- १.४ gUnh lkfgR; dk lkeku; ifjp;A
- १.५ gUnh x| lkfgR; dh fo/kk,i & dgkuh] ukVd vksJ egkdKO;] miU;k] ;k=k fooj.k] vkRedFkk vksJ



**bdkbZ २ & भाषा vf/kxe dh izd`fr vkSj ikB fu;kstu**

- २.१ fgUnh f" k{k.k ds y{; vkSj mn~ns";A  
 २.२ bdkbZ fu;kstu dk izR;;] bldk egUo vkSj fuekZ.k-fof/kA  
 २.३ ikB;kstuk dk ifjp;] mi;ksx vkSj egUoA  
 २.४ ikB;kstuk ds pj.k, संरचना, उपागम vkSj mudk fØ;kUo;uA  
 २.५ fgUnh f" k{k.k ds KkukRed] cks/kkRed] dkS"kykRed vkSj :fpxr mn~ns";ksa dk fu/kkZj.kA

**bdkbZ ३ & fgUnh dh fofo/k fo/kkvksa ds f" k{k.k dh fof/k;ksa dk ifjp; vkSj mi;ksx**

- ३.१ x| एवं i| f" k{k.k dh vko";drk vkSj mi;ksfxrkA  
 ३.२ x| f" k{k.k dh vFkZcks/k] o;k[;k] fo"ys'k.k vkSj la;qDr fof/k dk ifjp; vkSj budh leh{kA  
 ३.३ i| f" k{k.k dh "kCnkFkZ dFku] [k.MkUo;] O;kI तथा leh{k fof/k dk ifjp; vkSj budh mi;qDrrk dk vkadyuA  
 ३.४ O;kdj.k f" k{k.k dh vko";drk vkSj mi;ksfxrkA  
 ३.५ O;kdj.k f" k{k.k dh fuxeu] vkxeu] Hkk'kkklalxZ vkSj ikB~;&iqLrd fof/k;ksa dk ewY;kaduA

**bdkbZ ४ & भाषा vf/kxe & f" k{k.k esa lgk;d lkefxz;ksa dk iz;ksx**

- ४.१ f" k{k.k midj.kksa dk lanHkZ] egUo vkSj ykHkA  
 ४.२ vf/kxe & f" k{k.k ds n";] JO; , स्पर्श midj.kksa ds izdkjA  
 ४.२.१ n"; midj.k & ";keiV~V] pkVZ] uD"kk] ekufp=] izfr:i] dk;Z"kkhy izfr:i vkSj ण्यS"क  
 dkMZ, lkadsfrd Hkk'kk dh वीडियो तथा अनुशीर्षक, v[kckj] if=dkvksa vkSj iqLrdksa इत्यादि  
 ds iz;ksx dh fof/k vkSj vH;kIA  
 ४.२.२ JO; midj.k & dkWEiSDV fMLd] JO; iqLrd] Msth iqLrdksa] vkbZ&ikWM इत्यादि ds iz;ksx dh fof/k vkSj vH;kIA  
 ४.३.३ स्पर्श midj.k & वास्तविक वस्तुएं, व्यक्ति, वस्तु, आवागमन, पशु-पक्षी, पेड़-पौधे इत्यादि के स्पर्शात्मक -izfr:i, स्पर्शात्मक uD"kk] स्पर्शात्मक ekufp=] मानव-शरीर dk स्पर्शात्मक-izfr:i, ब्रेल-लिपी में पाठ्यपुस्तके. एवं अन्य स्पर्शात्मक शिक्षण- अधिगम lgk;d सामग्री इत्यादि ds :i esa iz;ksx dh fof/k vkSj mi;ksfxrkA  
 ४.४ oS|qnf.od midj.kksa & Vsyhfotu] dEI;wVj, MhthVy iqLrd, ई-सामग्री, सॉफ्ट-वेयरस, मोबाइल एप्स vkSj fo"otky ds lgk;d rduhd o midj.kksa ds :i esa iz;ksx dh fof/k vkSj mi;ksfxrkA  
 ४.५ Hkk'kk vf/kxe esa Hkk'kk iz;ksx"kkyk (HkkSfrd o vkHkk'kh) ds iz;ksx dh fof/k vkSj leh{kA

- रा.शै. अ. प्र. प. (२०१५). विशेष आवश्यकता वाले बच्चों का समावेशन-उच्च प्राथमिक स्तर, राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद्, नई दिल्ली: रा.शै. अ. प्र. प. ([www.ncert.nic.in](http://www.ncert.nic.in))
- रा.शै. अ. प्र. प. (२०१९). विद्यालय आधारित आंकलन | स्कूल प्रमुखों और शिक्षकों की समग्र उन्नति के लिए राष्ट्रीय पहल, नई दिल्ली: रा.शै. अ. प्र. प. ([www.ncert.nic.in](http://www.ncert.nic.in))
- रा.शै. अ. प्र. प. (२०१९). भाषा शिक्षण-शास्त्र| स्कूल प्रमुखों और शिक्षकों की समग्र उन्नति के लिए राष्ट्रीय पहल, नई दिल्ली: रा.शै. अ. प्र. प. ([www.ncert.nic.in](http://www.ncert.nic.in))

R. Kumar

Sydney

A

✓



## bdkbz ५ & भाषा vf/kxe ds vkadyu o ewY:kadu dh izfof/k

- ५.१ vkadyu o ewY:kadu dh ladvYukl mn<sup>n</sup>s<sup>s</sup>; vksJ egUo] a vkadyu प्रक्रिया में लचीलापन A
- ५.२ aaअंकलन के विभिन्न प्रकार तथा उपकरण, fo|ky; vk/kkfjr vkadyu dk lanHkZA
- ५.३ ys[ku] [Bu] j<sup>r</sup>ys[k] lqys[k] rhozs[ku] =qfVeqDr ys[ku] vk<sup>r</sup>kaHkkk.k] dKO:j[B] xhr] vfHku;] laokn] fØ;kdyki vksJ usr<sup>r</sup>o ds xq.kksa dk izfof/k ]kjk ewY;kadu तथा उनके ds Hkk<sup>r</sup>kk vf/kxe dk lap;ho<sup>o</sup>Ük cukuk
- ५.४ श्रुतियों की पहचान व विश्लेषण, नैदानिक परीक्षण और उपचारतक उपपथ ।
- ५.५ fo:;kax fo|kffkZ;ksa के लिए vkadyu प्रक्रिया में अनुकूलन और उनके सर्वांगीण विकास का आंकलन कर रिपोर्ट तैयार करनाA

## पाठ्यक्रम के संचालन

इस पाठ्यक्रम के संचालन में हिंदी शिक्षण-अधिगम की गतिविधियां, पारस्परिक चर्चा और व्याख्यान, साहित्य-समीक्षा, प्रदर्शन और अवलोकन, विभिन्न अधिगम केंद्र, जैसे- भाषा प्रयोगशालाओं, आभासी प्रयोगशालाओं, स्कूलों और कक्षाओं इत्यादि में शिक्षार्थियों की सक्रिय भागीदारी शामिल होगी इसके अतिरिक्त हिंदी भाषा की बहुसांस्कृतिक पहलू और बहुलता को समझने हेतु विभिन्न परिवेशों में अकादमिक-भ्रमण; परियोजनाएं और ई-सामग्री और डिजिटल शिक्षण सामग्री की तैयारी, किज कार्यशालाओं और संगोष्ठियों, प्रदर्शनियों और प्रतियोगिताओं में भागीदारी के अवसर प्रदान किए जाएंगे ।

## पाठ्यक्रम कार्य/उत्क:ksfxd dk:Z/ अधिगम केंद्रों पर कार्य &

- vk/kqfud Hkk<sup>r</sup>kk ds :ik esa fgUhn ds xq.kksa vksJ fLFfr dk vuqla/kku fooj.kA
- fgUhn f<sup>r</sup>k{k.k dh fdUgh nks v/kuqru foF/k:ksa dk ifjp; ,oa buds mi:ksx dh rgyukRed leh{kka
- fgUhn f<sup>r</sup>k{k.k ds Jo.k] okpu vksJ ys[ku vf/kxe ds lVhd ewY;kadu esa fo|ky; vk/kkfjr vkadyu dh izfof/k ds mi:ksx dk fooj.kA
- fpUru nSufUhn] iksVZQksfy:ks vksJ vkykspukRed fooj.kh ds mi:ksx dh leh{kka vksJ budh izfrd<sup>r</sup>fr dk izLrqrfdj.kA

## lanHkZ iqlrdsa &

- ik.Ms:] JqfrdkUr (२०१०). fgUhn f<sup>r</sup>k{k.k% vfHkuo vk:ke],fDII ifCyds<sup>r</sup>ka]] nfi:kxat] ubz fnYyh
- eaxy]mek (२००५). fgUhn f<sup>r</sup>k{k.k] vk:Z cqad fMiiks djksy cxx] ubz fnYyh
- ik.Ms:] jke<sup>r</sup>kdy (२००५). fgUhn f<sup>r</sup>k{k.k] fouksn iqlrd eFUNj
- “kqDy] jkeppUn (२००६).z fgUhn lkfgR; dk bfrgkll] jktdey izdk<sup>r</sup>ku] ubz fnYyh
- ykv]jeu fcgkjh (२००२). fgUhn f<sup>r</sup>k{k.k] jLrksxh izdk<sup>r</sup>ku] esjB
- flag]lkfo=h (२००४). fgUhn f<sup>r</sup>k{k.k] bUVjus<sup>r</sup>kuY ifCyf<sup>r</sup>kaX gkml] esjB
- रा.शे. अ. प्र. प. (२०१४). विशेष आवश्यकता वाले बच्चों का समावेशन-प्राथमिक स्तर, राष्ट्रीय शैक्षिक अनुसंधान और प्रशिक्षण परिषद्, नई दिल्ली : रा.शे. अ. प्र. प. (www.ncert.nic.in)

# Pedagogy of Teaching English

Course Code: A5 (e)

Credits: 02

Hours: 60

## Introduction

This course will enable the learners to gain a strong knowledge base in nature of English language & literature, instructional planning and evaluation. It will help learners in applying theory to practice in designing own materials and in planning lessons in preparation for teaching-learning in inclusive classes. The course offers learners the opportunity to explore in-depth aspects of English and to find out about the approaches and current practices of language teaching in relation to Indian and international contexts. The course also equips learners with analytical and investigative skills and provides a foundation in issues related to English language teaching, second language pedagogy, language acquisition, multicultural aspects of language and multilingualism.

## Objectives

After completing the course the student-teachers will be able to

- Explain the principles of language teaching, and evolution and trends in English literature.
- Prepare an instructional plan in English.
- Adapt various approaches and methods to teach English language.
- Use various techniques to evaluate the achievement of the learner in English.

## Unit I: Nature of English Language & Literature

- 1.1 Principles of Language Teaching
- 1.2 Language Proficiency: Basic Interpersonal Communication Skills (BICS) and Cognitive Academic Language Proficiency( CALP)
- 1.3 English Language in the school context: An Evolutionary Perspective
- 1.4 Current Trends in Modern English Literature in Indian context
- 1.5 Teaching as second language in Indian context.

## Unit II: Instructional Planning

- 2.1 Aims and objectives of Teaching English at different stages of schooling
- 2.2 Instructional Planning: Need and Importance
- 2.3 Unit and lesson plan: Need and Importance
- 2.4 Procedure of Unit and Lesson Planning
- 2.5 Planning and adapting units and lessons for children with disabilities

## Unit III: Approaches and Methods of Teaching English

- 3.1 Difference between an approach and a method

R. L. Siva

Prof. Siva



- 3.2 Task based approach, collaborative learning, experiential learning, reflective, inquiry-based approach, language across curriculum, communicative language teaching, Bilingual, Multilingual, Eclectic and Constructive approach
- 3.3 Method Teaching of Prose, Poetry, Drama, Grammar and Vocabulary- i) Translation method. ii) Structural – Situational method. iii) Direct method iv) integrative method
- 3.4 Development of four basic language skills: Listening (comprehension), Speaking (communication), Reading, and Writing
- 3.5 Accommodation in approaches and techniques in teaching children with disabilities

**Unit IV: Instructional Materials**

- 4.1 Importance of instructional material and their effective use
- 4.2 The use of the instructional aids for effective teaching of English: Multimedia including chalk, digital/smart, Flannel Board, Pictures/ Picture-cuts, Charts, Tape-records, Radio, Television, mobile phone, Films & Filmstrips, Projector, Language Laboratory, Virtual lab, Language games, reading cards, Worksheets, Handouts, and literature.
- 4.3 Construction of a teacher made learning materials and other resources for English proficiency
- 4.4 Language learning and enrichment activities-storytime, book review, reading buddies, book club, language circles, quizzes, discussions, debates, script writing and composing, creative writing, writing portfolio
- 4.5 Adaptations of teaching material for children with disabilities

**Unit V: Assessment and Evaluation**

- 5.1 Assessment and Evaluation - Concept and Need, Flexibility in assessment
- 5.2 Assessing Language skills and Language elements (Vocabulary, Grammar and Phonology)
- 5.3 Tools and techniques of Assessment, School Based Assessment in English language, Assessment of Holistic Development
- 5.4 Error Analysis, Diagnostic Tests, Identification of Hard Spots and Enrichment measures
- 5.5 Adaptation of Evaluation Tools and Formats for Children with Disabilities, designing of Individualized assessment procedure and holistic development report card.

**Transaction**

Transaction of this course will include active engagement of learners in English teaching-learning activities, interactive talks & lectures, literature-review, demonstrations and observations, exposure to varied settings-language labs, virtual labs, schools and classrooms, field-trips for multicultural aspects of language and plurality, projects and assignments, preparation of e-contents and digital learning materials, participation in quizzes, workshops and seminars, exhibitions and competitions.

### Course Work/ Practical/ Field Engagement

- Design teaching programme based on error analysis
- Develop an Action Research Plan for measuring the effectiveness of a given teaching approach in English
- Develop work sheet (interactive including language games)
- Prepare worksheets to enrich vocabulary among secondary students with disabilities
- Develop lesson plans for the teaching of prose and poetry
- Critically analyze any one poem or essay of a well known poet or writer

### Recommended Readings

- Agnihotri, R.K., & Khanna. A.L.(1996). English Grammar in context. Ratnasagar, Delhi.
- Allen, H., & Cambell, R. (1972). Teaching English as second Language, McGraw Hill, New York.
- Bharthi, T., & Hariprasad, M. (2004). Communicative English, Neelkamal Publications, Hyderabad.
- Bhatia, K.K. (2006). Teaching and Learning English as a Foreign Language. Kalyani Publishers, New Delhi.
- Bhatia, K.K., & Kaur, N. (2011). Teaching and Learning English as a Foreign Language. Kalyani Publishers, Ludhiana.
- Bindra, R. (2005). Teaching of English. Radha Krishan Anand and Co., Jammu.
- Grellet, F.(1980). Developing Reading Skills, Cambridge University Press, New York.
- Krashen, D. (1992). Principles and Practice in Second Language Acquisition. Pergamum Press Oxford.
- Krishna Swamy (2003). Teaching English: Approaches, Methods and Techniques. Macmillan Publication, New Delhi.
- NCERT (2014). Including Children with Special Needs-Primary Stage. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2015). Including Children with Special Needs-Upper Primary Stage. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2019). Pedagogy of Languages. National Initiatives for School Heads' and Teachers Holistic Advancement. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2019). School Based Assessment. National Initiatives for School Heads' and Teachers Holistic Advancement. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2022). National Curriculum Framework for Foundational Stage. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- NCERT (2023). National Curriculum Framework for School Education. New Delhi:NCERT. (available at [www.ncert.nic.in](http://www.ncert.nic.in))
- Sachdeva, M. S. (2007). Teaching of English. Patiala: Twenty First Century Publications.
- Sahu, B. K. (2004). Teaching of English. Kalyani Publishers, Ludhiana.

*R. L. Swamy*

*Sanjay Kumar*

*[Signature]*

*[Signature]*



- Shaik, M. & Gosh, R.N. (2005). Techniques of Teaching English. Neelkannal Publications, Hyderabad.
- Sharma, P. (2011). Teaching of English: Skill and Methods. Shipra Publication, Delhi.

## Introduction To Disabilities

Course Code: B1

Credits: 02

Hours: 60

### Introduction

This course is designed to provide an overview to disabilities. While specifically understanding the types and needs of various disabilities, the course also aims to develop knowledge and understanding about vital provisions as per the Rights of Persons with Disabilities Act (RPwD 2016) for empowering persons with disabilities. The course also intends to develop sensitivity towards persons with disabilities which is essential while working and teaching children with disabilities

### Objectives: After completing the course, the learners will be able to:

- Explain the various terms associated with disabilities
- Classify various disabilities according to different frameworks
- Describe the vital provisions for empowering persons with disabilities
- Give details of the prevalence, characteristics and needs of various disabilities
- Discuss the sensitivity to be kept in mind while working with persons with disabilities

### Unit I: Basics of disability

- 1.1 Exceptionality: Concept, Types, Strengths and Characteristics
- 1.2 Diversity, Difficulty, Delay & Disability in learners
- 1.3 Myths and realities about disabilities. 2e- Twice exceptionality
- 1.4 21 Specified disabilities in RPwD (2016) and their educational implications
- 1.5 International Classification of Functioning (ICF) framework of WHO; inaccessible environments as a source of barriers for learners with disabilities

### Unit 2: Significant provisions for empowerment of learners with disabilities in RPwD Act (2016)

- 2.1 Respect for difference and acceptance of persons with disabilities as part of human diversity
- 2.2 Benchmark disabilities & high support needs
- 2.3 Reasonable accommodations, equality and equity
- 2.4 Accessibility & barrier free environment for different disabilities
- 2.5 Effective participation and inclusion





**Unit 3 Characteristics, incidence, prevalence, types, and needs of persons with;**

- 3.1 Locomotor disabilities and Muscular Dystrophy
- 3.2 Cerebral Palsy and other neurological conditions
- 3.3 Blindness and Low vision
- 3.4 Hearing impairment
- 3.5 Speech and language disabilities

**Unit 4 Characteristics, incidence, prevalence, types, and needs of persons with;**

- 4.1 Intellectual disability
- 4.2 Autism Spectrum Disorder
- 4.3 Specific Learning Disabilities
- 4.4 Multiple disability and deafblindness
- 4.5 Other disabilities included in the RPwD (2016)

**Unit 5: Sensitivity while working with persons with disabilities**

- 5.1 Use of respectable and 'person first' language and preserve identity
- 5.2 Avoid labeling except for certification purposes.
- 5.3 Uphold abilities and not limitations
- 5.4 Understand intersectionality of disability
- 5.5 Eliminate stereotypes

**Transactions**

Lectures, readings, group discussions and debates

**Course work/Field engagements**

- Making awareness posters for avoiding labeling , upholding strengths
- Awareness programs on celebrating days allocated for specific disabilities
- Gathering state wise data about incidence of disability

**Recommended readings:**

- Batshaw, M. L., Roizen, N. J., & Lotrecchiano, G. R. (2012). Children with disabilities. Paul H Brooks Publishing.
- Chavan, B.S, Ahmed, W., Gupta, R.K. (2022).Comprehensive text book on disability. New Delhi: JayPee brothers medical publishers (P) Ltd.
- Chauhan, N. K. (2023). Introduction to disabilities. Book Enclave.

- Dogbe, D. S. Q., Yeboah, K. A. (2020). Introduction to special education and disability studies. LAMBERT Academic Publishing.
- Farrell, A. F. (2015). Educating special students: An introduction to provision for learners with disabilities and disorders. Sage Publications.
- Hodkinson, A. (2019). Key issues in special educational needs, disability and inclusion. SAGE Publication Ltd.
- Johnstone, D. (2001). An introduction to disability. David Fulton Publisher.
- Khatri, N. (2023). Introduction to disability. Walnut Publication.
- Martin, J. E., & Martin, R. (2016). An introduction to special education: Making a difference. Pearson.
- Mishra, P., Reddy, K. S., & Sridevi, K. (2021). Introduction to disabilities. Neelkamal Publications (P) Ltd (Hyderabad)
- Ramaswamy, B. (2012). Introduction to disability basic concepts and issues. Kaniska Publication.
- Shakespeare, T. (2018). Disability the basis. Routledge.
- Smith, J., & Sewell, A. (2020). Introduction to special educational needs, disability and inclusion: a student's guide. SAGE Publication Ltd.
- Wearmouth, J. (2023). Special educational needs and disability. Routledge.
- Westwood, P. (2013). What teachers need to know about students with disabilities. ACER Press.

#### Web links

- <https://depwd.gov.in/acts>
- <http://www.ccdisabilities.nic.in/resources/disability-india>
- <https://niua.in/intranet/sites/default/files/2458.pdf>
- <https://cdnbbsr.s3.waas.gov.in/s3e58aeat67b01fa747687f038dfe066fb/uploads/2023/11/202311292033291428.pdf>
- [https://www.nhfdc.nic.in/upload/nhfdc/Persons\\_Disabilities\\_31mar21.pdf](https://www.nhfdc.nic.in/upload/nhfdc/Persons_Disabilities_31mar21.pdf)

R. S. S.

Amgini

*(Handwritten signature)*



## Introduction to Education of Students with Disabilities

Course Code: B2

Credits: 02

Hours: 60

### Introduction

This course will enable the learners to gain knowledge about the developments in education of children with disabilities based on philosophical transformations, Govt initiatives, legal and policy provisions, technology and research. The course will also provide knowledge about various educational options and their infrastructural requirements and pedagogical practices. Learners, who will be special educators after successfully completing the program, would also understand their current role responsibilities and futuristic skills for education of children with disabilities.

#### Objectives

After completing the course, the learners will be able to:

- Discuss the developments on the basis of advancements that rationalize the change in trends in the education of children with disabilities
- Describe the national initiatives and provisions for education children with disabilities and their families
- Explain the infrastructural requirements and pedagogical practices for various educational set ups
- Explain and undertake their role responsibilities as a special educator
- Discuss the readiness required for the future for education of students with disabilities

### Unit 1: Changing perspectives in the education of children with disabilities

- 1.1 Paradigm shift in the disability (re)habilitation models & its impact on education of children with disabilities
- 1.2 Understanding the segregated special education, integrated education and inclusive education from the lens of policy provisions and recommendations of National Acts provisions, Education commissions, Disability and Education policies, and International frameworks
- 1.3 Technological advancements leading to changing perspectives towards education of children with disabilities
- 1.4 Research in neuroscience and neuroplasticity contributing for early childhood education and intervention
- 1.5 Concept of 'high returns on early investment' facilitating early identification and intervention and education of children with disabilities

### Unit 2: Current initiatives for education of children with disabilities

- 2.1 Initiatives by various Ministries in setting up of CDEIC and DIEC centers and training of Aganwadis for facilitating early identification and intervention for inclusive education
- 2.2 Setting up and supporting of special schools, centers, vocational education; provisions of various Govt schemes



- 2.3 'Divyanjan' as SEDGs and their educational empowerment; provisions in NEP 2020 and National Curricular Framework for Foundational Stage (2022), National Curricular Framework for School Education (2023)
- 2.4 Training regular school teachers, norms for special educators, standards for teacher pupil ratio for inclusive education and accommodations for learning as directed by Supreme Court judgment (2021)
- 2.5 Reservation of seats under RTE (2009) Act and creating barrier free environment in schools and e-content guidelines, provisions of open schooling

### **Unit 3: Changing role of a special educator**

- 3.1 Sensitizing community and Aganwadis for early identification and intervention, development of soft skills, attending skills and knowledge of ICT
- 3.2 Home visits and need based home training, informed choices, supporting for conducting surveys as mentioned in RPwD Act (2016)
- 3.3 Assisting families in availing facilities in schemes, concessions and preparation of UDID card and data management
- 3.4 Working with general school teachers for inclusive pedagogy and supporting basic skills for learning for children with different disabilities
- 3.5 Undertaking action research and attending continuous rehabilitation and professional development programs

### **Unit 4: Setting up of the special centres and curricular strategies in special schools (12 hrs)**

- 4.1 Early intervention (below 3 years) infrastructural requirements, cross disability curriculum, school readiness programs and transition planning
- 4.2 Foundational and preparatory (3 yrs to 11 yrs) infrastructural requirements and pedagogical practices
- 4.3 Middle school (11 yrs to 14 years) and secondary (14 yrs to 18 years) infrastructural requirements and pedagogical practices, supporting career education of students with disabilities.
- 4.4 Pedagogical practices for high support needs, multiple disabilities and independent living skills
- 4.5 Maintaining school records and conducting parent meetings and programs for families

### **Unit 5: Futuristic requirements for education of students with disabilities**

- 5.1 Using technological tools and apps for easing and enhancing communication, reading, writing and computing
- 5.2 Blended and Web-Based educational service for distance learning for reaching the unreached
- 5.3 UDL (Universal designs for learning) frameworks



- 5.4 AI (Artificial intelligence) tools to surpass communication barriers, AI-powered assistive robots for assisting students with socio-emotional challenges; AI tools for collecting and preserving data for monitoring progress, fine-tuning teaching strategies, and identify potential learning roadblocks.
- 5.5 Education for life and career skills: Critical thinking, problem solving, reasoned decisions, financial literacy, entrepreneurship skills, collaborations and risk taking abilities

#### Transaction:

Lectures, Symposiums, Desk reviews, Focus Group Discussions

#### Course work/Field engagements

- Visits to various educational set ups
- Interacting with Adults with disabilities and Senior retired professionals
- Readings and reflections of biographies and institutional reports
- Flow chart of accessing Govt schemes

#### Recommended readings

- Ajay Singh, Mark Viner, Chia Jung Yeh (2020). Special Education Design and Development Tools for School Rehabilitation Professionals, IGI Global, USA
- Ange Anderson (2019). Virtual Reality, Augmented Reality and Artificial Intelligence in Special Education: A Practical Guide to Supporting Students with Learning Differences, Routledge; 1st edition
- B S Chavan, Wasim Ahmad, Raj Kumari Gupta (Eds). Comprehensive Textbook on Disability (2022) ISBN: 978-93-5465-551-7 (2022), Jaypee brothers medical publishers, New Delhi
- Catlin Tucker, Katie Novak (2022). The Shift to Student-Led: Reimagining Classroom Workflows with UDL and Blended Learning, Impress, LP
- Chandra, S. (2023). Universal Design for Learning Addressing the Barriers, IP Innovative Publication Pvt Ltd
- Curricular framework for cross disability early intervention and school readiness, Pehal and Nipun, published by RCI, AYJNISHD (D) and Pratham
- Disability and Inclusion: From rationale to reality, Ratan Sarkar, Dr. Mumtaz Begum Eds., New Delhi ISBN: 978-81-8435-469-0 Adyayan Publishers & Distributors,
- Dr. Behzad Maqbool, Prof. Jayanthi Pujari (Editor). Changing Scenario and Emerging Trends in Special Education. Neelkamal publications
- Dr. K. Ravikanth Rao and Dr. P. Dinakar (2016). Life Skills Education. Neelkamal publishers, Hyderabad
- Edward A. Polloway, James R. Patton, Loretta Serna, Jenevie W. Bailey (2012). Strategies for Teaching Learners with Special Needs, Pearson publisher
- G, Shirly., Kunnath, S K., Varghese, A., George, V M., (Eds) (2019). Disability: an overview. Trivandrum, NISH. ISBN: 9788193985007.
- G. Lokanadha Reddy (2015). Role Performance of Special Education Teachers: Problems



B.Ed.Spl.Ed./2024-25



- and Prospects. Discovery Publishing Pvt.Ltd
- Himangshu Das & Rajesh Ramachandran (2022). Challenges in Transition: Autism Spectrum Disorder Eds, ISBN: 978-81-957612-1-0, published by NIEPMD, Chennai ([www.niepmid.tn.nic.in/publications](http://www.niepmid.tn.nic.in/publications))
- Keith Storey, Paul Bates, Dawn Hunter (2008). The Road Ahead Transition to Adult life for Persons with Disabilities. Training Resource Network, Inc
- Khurshed Ahmad Butt (2022). National Higher Education Policy 2020: How to Make It Happen? Atlantic Publishers and Distributors (P) Ltd
- Lawrence, Arul A.S & Thiyagarajan, P, (2021). Nation building through skill development. Tamil Nadu Open University. ISBN 978-81-951793-1-2
- Mangal, S. K., Mangal, Shubhra (2019). Creating An Inclusive School. PHI Learning Pvt. Ltd
- Manpreet Singh Manna, Balamurugan Balusamy, Meenakshi Sharma, Prithi Samuel (2023). Blended Learning and MOOCs-A New Generation Education System. Taylor & Francis group
- Marilyn Friend (2007) Special Education: Contemporary Perspectives for School Professionals. Pearson publication
- Mark Viner, Ajay Singh, Michael F. Shaughnessy (2022). Research Anthology on Inclusive Practices for Educators and Administrators in Special Education, IGI Global, USA
- Mubarak Singh (2010). Education of Children with Special Needs, 01 Edition, Kanishka Publishers Distributors
- Narayan, Jayanthi (2005). Creating play environment for children with sensory Impairment & additional disabilities
- Nawale, Arvind & Nivargi, M & Gangane, A & Tiwari, Sandya. (2018). An Introduction to Life Skills. Macmillan Publishers ISBN: 9387914887
- Neeru Gupta (2017). Major Issues & Challenges in Special Education in India. Horizon books
- S.L. Sharma, B.S. Ghuman and Shital Parkash (Eds.) (2018). Higher Education In India: The Changing Scenario. Rawat publications.
- Samuel Kai Wah Chu, Rebecca B. Reynolds, Nicole J. Tavares, Michele Notari, Celina Wing Yi Lee (2018) 21st Century Skills Development Through Inquiry-Based Learning From Theory to Practice. Springer Nature, Singapore
- Satish Chandra (2023). Universal Design for Learning Addressing the Barriers, IP Innovative Publication Pvt Ltd
- Verma. P, Panshikar, A & Gupta, Y (Eds.) (2019), Be the difference: equality & equity in education. New Delhi, ISBN: 978-93-82884-94-1 S R publishing house.
- Yukti Sharma (2021). Inclusive Education Perspectives Praxis And Pedagogy, Pearson India

### Web based readings

- [https://cbseacademic.nic.in/web\\_material/Manuals/handbook-inclusive-education.pdf](https://cbseacademic.nic.in/web_material/Manuals/handbook-inclusive-education.pdf)
- <https://ici-s.umn.edu/files/qTxnhxmNxT/inclusive-education-strategies-textbook>
- [https://main.sci.gov.in/supremecourt/2016/6641/6641\\_2016\\_3\\_1501\\_30887\\_Judgement\\_28-Oct-2021.pdf](https://main.sci.gov.in/supremecourt/2016/6641/6641_2016_3_1501_30887_Judgement_28-Oct-2021.pdf)



- [https://manuu.ac.in/DDE-SelfLearnmaterial/BEDD116DST\\_July4.pdf](https://manuu.ac.in/DDE-SelfLearnmaterial/BEDD116DST_July4.pdf)
- <https://n20.ncert.org.in/pdf/publication/otherpublications/ticsnups101.pdf>
- <https://ncert.nic.in/accessibility.php>
- <https://ncert.nic.in/pdf/CWSN-FAQs.pdf>
- <https://ncert.nic.in/pdf/publication/otherpublications/SpecialNeeds.pdf>
- <https://niepid.nic.in/Educating%20Children%20With%20Learning%20Problems.pdf>
- <https://unesdoc.unesco.org/ark:/48223/pf0000186611>
- <https://www.bdu.ac.in/cde/docs/ebooks/B-Ed/1/CONTEMPORARY%20INDIA%20AND%20EDUCATION.pdf>
- [https://www.education.gov.in/sites/upload\\_files/mhrd/files/document-reports/Confluence.pdf](https://www.education.gov.in/sites/upload_files/mhrd/files/document-reports/Confluence.pdf)
- [https://www.education.gov.in/sites/upload\\_files/mhrd/files/infocus\\_slider/NCF-School-Education-Pre-Draft.pdf](https://www.education.gov.in/sites/upload_files/mhrd/files/infocus_slider/NCF-School-Education-Pre-Draft.pdf)
- [https://www.education.gov.in/sites/upload\\_files/mhrd/files/NEP\\_Final\\_English\\_0.pdf](https://www.education.gov.in/sites/upload_files/mhrd/files/NEP_Final_English_0.pdf)
- [https://www.hzu.edu.in/bed/Basics-in-Education%20\(NCERT\).pdf](https://www.hzu.edu.in/bed/Basics-in-Education%20(NCERT).pdf)
- <https://www.niepid.nic.in/Handbook%20on%20EIC.pdf>
- <https://www.oecd.org/education/school/50293148.pdf>
- [https://www.researchgate.net/publication/373041128\\_Combining\\_Artificial\\_Intelligence\\_with\\_Special\\_Education](https://www.researchgate.net/publication/373041128_Combining_Artificial_Intelligence_with_Special_Education)
- <https://www.ugc.gov.in/e-book/SKILL%20ENG.pdf>
- <https://www.unicef.org/eap/media/6421/file/Education%20for%20every%20ability.pdf>
- <https://www.unicef.org/media/126506/file/UNICEF-Right-to-Education-Children-Disabilities-ENG.pdf>
- <https://www2.ed.gov/documents/ai-report/ai-report.pdf>

*R. L. ...*      *Jayashree*      *S. S.*

# Equitable and Inclusive Education

Course Code: B 3

Credits: 02

Hours: 60

## Introduction:

The course is designed to develop an understanding of equitable and inclusive education and addressing diversity in the mainstream classroom. It is also formulated in a way that the learners will know the pedagogical practices and recognise ways in which different stakeholders can collaborate for the success of inclusive education.

**Objectives:** After completing the course the learner will be able to

- Explain the construct of inclusive education and the progression from segregation towards valuing & and appreciating diversity in inclusive education.
- Explicate the national and key international policies and frameworks facilitating inclusive education.
- Enumerate the skills in adapting instructional strategies for teaching in mainstream classrooms.
- Describe the inclusive pedagogical practices and their relation to good teaching.
- Expound strategies for collaborative working and stakeholders' support in implementing inclusive education.

## Unit 1: Introduction to Inclusive Education & Policy Perspectives

- 1.1 Disability & Diversity; Diversity in Classrooms (Learning Styles, Linguistic & Socio-Cultural Multiplicity)
- 1.2 Marginalisation vs. Inclusion; Meaning & Definition of Inclusive Education; Understanding Barriers to Inclusive Education: Physical, Educational and Attitudinal
- 1.3 Changing Practices in Education of Children with Disabilities: Segregation, Integration & Inclusion
- 1.4 National Commissions & Policies Promoting Inclusive Education
- 1.5 International Declarations & Conventions Promoting Inclusive Education

## Unit 2: Adaptations, Reasonable Accommodations & Planning

- 2.1 Need for Adaptations; Curricular Adaptations
- 2.2 Disability-Specific Adaptation: Requirements & Approaches
- 2.3 Importance of Communication & Language for Inclusive Classroom
- 2.4 Participation in Non-Academic Curricular Activities: Planning and Adaptations
- 2.5 Assessments Strategies for Facilitating Learning in an Inclusive Classroom

## Unit 3: Inclusive Academic Instructions

- 3.1 Universal Design & Addressing Diversity: Meaning, Key Principles
- 3.2 Universal Design for Learning: Understanding Principles and Application to Classrooms
- 3.3 Inclusive Classroom Environment
- 3.4 Differential Instructions & Peer Mediated Instructions (Peer Tutoring, Peer Assisted Learning)
- 3.5 Engaging Gifted Children: Cooperative Teaching Models

## Unit 4: Supports and Collaborations for Inclusive Education

- 4.1 Planning for Classroom engagement for all (Lesson Planning for different Subjects)





- 4.2 Advocacy & Leadership for Inclusion in Education; Stakeholders of Inclusive Education & their Responsibilities
- 4.3 Resource rooms and the role of special educators
- 4.4 Integration of ICT for Inclusion
- 4.5 Family Support & Community Involvement for Inclusion

### **Unit 5: Positive Behaviour Supports**

- 5.1 Understanding behaviours: Topography, communicative and non-communicative functions, internal and external factors
- 5.2 Neurodivergent affirming strategies to promote positive behaviour support (e.g. using interest, structure, visual strategies, self-stimulatory behaviours, providing choices and control)
- 5.3 Understanding role of using motivation and teaching emotional regulation
- 5.4 Creating predictable environments
- 5.5 Differentiating between shutdowns, meltdowns and tantrums

### **Transactions**

Group discussions following videos and visits. A debate for Inclusion vs. Segregation. Self-study for legislations and frameworks. Presentations and critical analysis of laws and policies.

### **Course work / Practical / Field Engagement**

- Visit Special Schools for at least two disabilities and at least two inclusive schools and write observation reports highlighting pedagogy
- Prepare a checklist for accessibility in mainstream schools for children with disabilities
- Design a poster on inclusive education considering policy concerns
- Prepare a lesson plan on any one school subject of your choice using any one inclusive academic instructional strategy

### **Recommended Readings**

- Bartlett, L. D., & Weisentein, G. R. (2003). *Successful Inclusion for Educational Leaders*. New Jersey: Prentice Hall.
- Chaote, J. S. (1991). *Successful Mainstreaming*. Allyn and Bacon.
- Choate, J. S. (1997). *Successful Inclusive Teaching*. Allyn and Bacon.
- Daniels, H. (1999). *Inclusive Education*. London: Kogan.
- Deiner, P. L. (1993). *Resource for Teaching Children with Diverse Abilities*, Florida: Harcourt Brace and Company.
- Dessent, T. (1987). *Making Ordinary School Special*. Jessica Kingsley Pub.
- Gargiulo, R.M. *Special Education in Contemporary Society: An Introduction to Exceptionality*. Belmont: Wadsworth.
- Gartner, A., & Lipsky, D.D. (1997). *Inclusion and School Reform Transferring America's Classrooms*. Baltimore: P. H. Brookes Publishers.
- Giuliani, G.A. & Pierangelo, R. (2007). *Understanding, Developing and Writing IEPs*. Corwin press: Sage Publishers.
- Gore, M.C. (2004) . *Successful Inclusion Strategies for Secondary and Middle School Teachers*, Crowin Press, Sage Publications.
- Hegarthy, S. & Alur, M. (2002). *Education of Children with Special Needs: from Segregation to Inclusion*, Corwin Press, Sage Publishers.
- Karant, P., & Rozario, J. ((2003). *Learning Disabilities in India*. Sage Publications.
- Karten, T. J. (2007). *More Inclusion Strategies that Work*. Corwin Press, Sage Publications.

- King-Sears, M. (1994). Curriculum-Based Assessment in Special Education. California: Singular Publications.
- Lewis, R. B., & Doorlag, D. (1995). Teaching Special Students in the Mainstream. 4th Ed. New Jersey: Pearson.
- McCormick, S. (1999). Instructing Students who Have Literacy Problems. 3rd Ed. New Jersey, Pearson.
- Rayner, S. (2007). Managing Special and Inclusive Education, Sage Publications.
- Ryandak, D. L. & Alper, S. (1996). Curriculum Content for Students with Moderate and Severe Disabilities in Inclusive Setting. Boston, Allyn and Bacon.
- Sedlak, R. A., & Schloss, P. C. (1986). Instructional Methods for Students with Learning and Behaviour Problems. Allyn and Bacon.
- Stow L. & Selfe, L. (1989). Understanding Children with Special Needs. London: Unwin Hyman.
- Turnbull, A., Turnbull, R., Turnbull, M., & Shank, D.L. (1995). Exceptional Lives: Special Education in Today's Schools. 2nd Ed. New Jersey: Prentice-Hall Inc.
- Vlachou D. A. (1997). Struggles for Inclusive Education: An Ethnographic Study. Philadelphia: Open University Press.
- Westwood, P. (2006). Commonsense Methods for Children with Special Educational Needs - Strategies for the Regular Classroom. 4th Edition, London Routledge Falmer: Taylor & Francis Group.

*Rizus*

*Rayner*

*[Signature]*

*[Signature]*



# Supportive Skills for Education of Children with Disabilities

Course Code: B5

Credits: 2

Hours: 60

**Introduction:** This course is designed to assist the learners in developing the basic skills required for communication and undertaking educational practices for students with disabilities. It is introduced as a core course so that the learners are equipped with information, fundamentals and essential accommodations for students with different disabilities who have varied learning and communication needs.

**Objectives:** After completing the course the learner will be able to:

- Create a welcoming, safe and a barrier free learning environment for students with disabilities
- Communicate with students using ISL, Tactile signs, speech reading techniques or AAC methods
- Exhibit readiness for use of basics of Braille script and mobility orientation
- Use technology for facilitating learning
- Describe the basic assistance required for children for overcoming literacy and numeracy issues and functional skills

## Unit 1: Welcoming and safe school environment

- 1.1 Creating positive school climate, inclusive school policy, use of auditory, visual and tactile signage and icons
- 1.2 Safe corridors, classrooms, windows with grills and student friendly spaces including toilets and drinking water
- 1.3 Teaching and non-teaching staff displaying positive attitude and using inclusive respectable language
- 1.4 Creating buddy systems, prevention of bullying, POCSO committee and redressal cell
- 1.5 The power of embracing mistakes, rectifying and learning from failures

## Unit 2: Basics of ISL, Tactile signs & Speech reading for students with HI or deafblindness or other disabilities

- 2.1 Finger spelling and signing basic vocabulary of names, numbers, colours, days, months and question forms



B.Ed.Spl.Ed./2024-25

Rehabilitation Council of India 51



Scanned with OKEN Scanner

- 2.2 Signing class essentials such as home work, attendance, transport, family members, school subjects and school activities
- 2.3 Signing essential communications for curricular and cross curricular activities
- 2.4 Manual alphabets for tactile signs; hand shapes, positions and movement of hands
- 2.5 Speech/lip reading skills and oral transliteration for educational settings

### **Unit 3: Basics of Braille and mobility orientation for Low vision or VI**

- 3.1 Pre-Braille skills for the development of tactile sense
- 3.2 Introduction to Braille alphabets in English, Hindi and Braille of regional languages. Numerals, numbers and signs and symbols of basic operation in Braille
- 3.3 Colour contrasts and large print for low vision. Use of tactile shapes for denoting various objects for school environment.
- 3.4 Orientation and mobility instructions and pre cane skills and protective techniques
- 3.5 Use of Multimedia books, screen readers and magnifiers.

### **Unit 4: Adapted communication aids and AAC Methods for students with CP and ASD**

- 4.1 Communication cards, & displays, gupshup books, text to speech and speech to text
- 4.2 Use of adapted reading and writing instruments and appropriate positioning for students with CP
- 4.3 Use of structured, visual strategies, for creating sensory friendly and predictable environment for ASD
- 4.4 Using interests and motivation, self-stimulatory behavior and echolalia to promote learning
- 4.5 Using AACs to foster communication and learning in students with CP and ASD

### **Unit 5: Supporting academic learning for students with ID and SLD**

- 5.1 Support in academics – Literacy and numeracy skills for students with SLD and ID. Use of prior knowledge, colour coding, chunking, graphic organizers and collaborative reading groups for reading
- 5.2 Use of tablets, laptops, calculators for numeracy. Multimedia books for reading, sketching, pointing and use of transparency and fading strategy for writing and numeracy
- 5.3 Functional academics for specific students with ID who have difficulty in learning academics: Use of suitable learning and functional aids. Breaking learning tasks into small steps,
- 5.4 Self-help skills - adaptations in the gadgets used to suit the need of the students.
- 5.5 Adaptations of tools and instruments, for safety of students with ID in work stations.

### **Transaction**

Lectures and readings for Unit 1. Demonstration and hands on training for all supportive skills for Units 2, 3, 4 and 5

### **Course work/Practical/Field Engagement**

- **Visit and inclusive school and prepare a report on school climate, ethos and culture**



- Observation records of supportive skills as videos, photographs with permission
- Developing a portfolio based on supportive skills

### Recommended readings

- **Advances in Information Communication Technology and Computing: Proceedings of AICTC 2022.** (2023). Germany: Springer Nature Singapore.
- Aggarwal, K. (2002). Handbook for parents of children with Disabilities. Planning Commission. Govt. of India.
- Asmita, H. (2006). Language and Communication. Kanishka Publication, New Delhi.
- Bouck, E. C. (2015). Assistive Technology. United States: SAGE Publications.
- Children with Visual Impairments: A Parents' Guide. (2006). United States: Woodbine House.
- Creating Inclusion and Well-being for Marginalized Students
- Dash, M. (2000). Education in India: Problems and Perspectives. India: Atlantic Publishers and Distributors.
- Dickinson, C., Hernandez Trillo, A., Crossland, M. (2022). Low Vision - E-Book: Principles and Management. Netherlands: Elsevier Health Sciences.
- Dr. Premananda Mishra, K Srinivas Reddy, Dr. K. Sridevi (2021). Introduction to Disabilities. Neelkamal Publishers, Hyd
- Dr. Sr. Alice Mathew. Learning Disabilities and Remediation, Neelkamal Publications, Hyd
- Elaine Sutherland, Lesley-Anne Barnes Macfarlane (Eds) (2016) Implementing Article 3 of the United Nations Convention on the Rights of the Child, Best Interests, Welfare and Well-being. Cambridge University Press
- Foundations of Vision Rehabilitation Therapy. (2020). United States: APH Press, American Printing House for the Blind.
- Gargiulo, R. M., Kilgo, J. L. (2018). An Introduction to Young Children With Special Needs: Birth Through Age Eight. United States: SAGE Publications.
- Garry Hornby James M. Kauffman (eds) (2021). Special and Inclusive Education: Perspectives, Challenges and Prospects. MDPI, Switzerland
- Gordon-Gould, P. & Hornby, G. (2023). Inclusive education at the crossroads: Exploring special needs provision in global contexts. Routledge.
- Hamblin, T. & Bose, S. (2003). Cognitive Development, IICP, Kolkata
- Hamblin, T. & Bose, S. (2003). Motor Development, IICP, Kolkata
- Hamblin, T. & Bose, S. (2003). Play, IICP, Kolkata
- Hornby, G. & Greaves, D. (2022). Essential evidence-based teaching strategies: Ensuring optimal academic achievement for students. New York: Springer.
- Indian Sign Language Class I. (2021). (n.p.): Haryana Welfare Society for Persons with Speech and Hearing Impairment.
- Judy Sebba, Richard Byers, Richard Rose (1993). Redefining the Whole Curriculum for Pupils with Learning Difficulties Paperback. David Fulton publishers.
- Linda Goldman (2017). Whole-School Approaches to Supporting Children's Grief, Loss, and Trauma. Jessica Kingsley Publishers
- M. V. Manoj Kumar (ed)(2023). Computer Assistive Technologies for Physically and Cognitively Challenged Users. Bentham Science Publishers
- NIMH (2003 ) Educating children with learning problems inn primary schools. Secunderabad: NIMH

*R. L. Suresh* *S. Sridevi*

*[Signature]*

*[Signature]*

- Organization, W. H. (2010). Community-based Rehabilitation: CBR Guidelines. Philippines: World Health Organization.
- Paul, R., Norbury, C. (2012). Language Disorders from Infancy through Adolescence - E-Book. United Kingdom: Elsevier Health Sciences.
- Richard Byers, Richard Rose (2005). Planning the Curriculum for Pupils with Special Educational Needs A Practical Guide. David Fulton Publishers
- Richard Rose (2005). Becoming a Primary Higher Level Teaching Assistant (Higher Level Teaching Assistants Series). First edition, learning matters.
- Sense International India (2017). Handbook on Deafblindness. Ahmedabad India
- Shantanu Dey (2021). Handbook of E-Pedagogy. Clever Fox Publishing, Chennai
- Sibnath Deb (2018). An Empirical Investigation Into Child Abuse and Neglect in India- Burden, Impact and Protective Measures. Springer Nature, Singapore
- Tomkins, W. (2012). Indian Sign Language. United States: Dover Publications.
- Warrick, A. & Kaul, S. (2002). Everyone is Talking: Making Communication Displays, IICP, Kolkata
- Warrick, A. & Kaul, S. (2002). Everyone is Talking: Using Communication Displays, IICP, Kolkata

### Web based reading

- [https://dsei.education.gov.in/sites/default/files/update/SOP\\_WASH.pdf](https://dsei.education.gov.in/sites/default/files/update/SOP_WASH.pdf)
- [https://ies.cd.gov/nccc/wwc/Docs/practiceGuide/wwc\\_foundationalreading\\_040717.pdf](https://ies.cd.gov/nccc/wwc/Docs/practiceGuide/wwc_foundationalreading_040717.pdf)
- [https://mdu.ac.in/UpFiles/UpPdfFiles/2022/Jan/4\\_01-10-2022\\_16-23-18\\_Reading-Difficulties-Disabilities.pdf](https://mdu.ac.in/UpFiles/UpPdfFiles/2022/Jan/4_01-10-2022_16-23-18_Reading-Difficulties-Disabilities.pdf)
- [https://mural.maynoothuniversity.ie/2709/1/KD\\_Exploring\\_Language\\_and\\_Communication.pdf](https://mural.maynoothuniversity.ie/2709/1/KD_Exploring_Language_and_Communication.pdf)
- <https://niepid.nic.in/LEARNING%20DISABILITIES.pdf>
- [https://niepmd.tn.nic.in/documents/Book\\_on\\_Deafblindness\\_040820.pdf](https://niepmd.tn.nic.in/documents/Book_on_Deafblindness_040820.pdf)
- <https://pubs.asha.org/toc/persp/7/6>
- <https://www.apa.org/pi/disability/resources/assessment-disabilities>
- [https://www.cbm.org/fileadmin/user\\_upload/Publications/Guidelines\\_on\\_best\\_practice\\_for\\_persons\\_living\\_with\\_deafblindness\\_EN.pdf](https://www.cbm.org/fileadmin/user_upload/Publications/Guidelines_on_best_practice_for_persons_living_with_deafblindness_EN.pdf)
- <https://www.niepid.nic.in/Education%20of%20children%20with%20deafblindness.pdf>
- [https://www.researchgate.net/publication/226930226\\_Learning\\_Difficulties\\_Literacy\\_and\\_Numeracy\\_Conversations\\_Across\\_the\\_Fields](https://www.researchgate.net/publication/226930226_Learning_Difficulties_Literacy_and_Numeracy_Conversations_Across_the_Fields)
- <https://www.unicef.org/india/media/1191/file/Making-Schools-Accessible.pdf>
- <https://divyangjan.depwd.gov.in/islr/c/>



# Guidance and Counseling

Course Code: B 6(A)

Credits: 02

Hours: 60

## Introduction:

Guidance and counselling are vital in helping children and their families to cope with stress and to find the right way to plan their programmes in education, vocation and daily living activities. This course will empower the learners of this course to understand guidance and counselling, the types and context of counselling and apply the counselling and guidance skills to help students and their families.

## Objectives

After completing this course the learners will be able to

- Describe the concept and meaning of Counseling and Guidance.
- Apply the skills of guidance and counseling in classroom situations and with families of the students.
- Describe the process of development of self-image and self-esteem.
- Discuss the types of counseling and guidance in special school and inclusive settings.
- Narrate the importance and scope of family counseling

## Unit 1: Introduction to Guidance and Counseling

1.1 . Guidance and Counseling: Definition and Aims

1.2 . Areas of Guidance and Counseling

1.3 Core conditions in counseling

1.4 Skills and competencies of a Counselor

1.5 Role of the teacher in guiding and counseling students with special educational needs.

## Unit 2: Applying Guidance and Counseling skills

2.1. Differentiating counseling and guidance

2.2. Ethics in counseling e.g. Confidentiality, anonymity, respect, empathy

2.3. Counselor as a good listener

2.4. Guiding the students and their families on specific issues e.g, family issues, concerns on academic performance, special educational needs

2.5. Counseling on specific issues e.g. Career counseling, family issues that emotionally affect the students such as separation/death of dear ones, other traumatic conditions



### **Unit 3: Enhancing Self Image and Self Esteem**

- 3.1. Concept of Self as a human being.
- 3.2. Understanding emotions, feelings and changes
- 3.3. Growth to autonomy
- 3.4. Personality development – role of the counselor
- 3.5. Role of teacher in developing in children, self-esteem and respecting feelings of others

### **Unit 4: Guidance and Counseling in Inclusive Education**

- 4.1. Current status with reference to Indian schools
- 4.2. Types of Counseling: non directional, Child-centered, supportive, family members
- 4.3. Guidance in Formal and Informal situations: Within and outside classroom, vocational guidance
- 4.4. Group guidance: Group leadership styles and group processes
- 4.5. Challenges in group guidance

### **Unit 5: Family counseling of students with special educational needs**

- 5.1. Importance of establishing rapport with the family members.
- 5.2. Addressing family as a unit with focus on the student with special educational need.
- 5.3. Counseling siblings and other extended family members
- 5.4. Connecting home and school – collaboration with school teachers and family
- 5.5. Record maintenance of guidance and counseling interventions.

### **Transaction**

The transaction for this course should be done with a perspective to enhance in the learners the ability to become a “People-helper”. They should be able to appreciate the role of a guide and counsellor in the school setting. Lecture discussions, role play and case discussions should be adopted to facilitate understanding among the learners.

### **Course work/Practical/Field Engagement**

- I. Counselling and report writing on a selected client/family
- II. Conduct of a simulated parent counselling session
- III. Review documents on vocational guidance and write an essay.

### **Recommended Readings**

- Naik, P.S. (2013). *Counselling Skills for Educationists*. New Delhi: Soujanya Books.



- Nayak, A.K. (1997). Guidance and Counselling. New Delhi: APH Publishing.
- Rao, V. K., & Reddy, R.S. (2003). Academic Environment: Advice, Counsel and Activities. New Delhi: Soujanya Books.
- Shah, A. (2008). Basics in Guidance and Counselling. New Delhi: Global Vision Publishing House.
- Sharma, V.K. (2022). Administration and Training of Educational and Vocational Guidance. New Delhi: Soujanya Books.
- Mehrotra, N (2016). A resource book on disability studies in India,  
<https://www.jnu.ac.in/Faculty/nilika/A%20READER%20ON%20DISABILITY%20STUDIES%20IN%20INDIA.pdf>
- <https://cgyanoksh.ac.in/bitstream/123456789/46291/1/BESE-132B4E.pdf>
- [https://www.niepid.nic.in/Protocol\\_Psy.pdf](https://www.niepid.nic.in/Protocol_Psy.pdf)
- <https://www.mheducation.co.in/counselling-and-guidance-9781259005077-india>

R. L. S.

Devgan

d d





## **Unit 4: Key Elements**

- 4.1 Fostering safe and positive relationships
- 4.2 Fair and predictable consequences
- 4.3 Differentiated instructions
- 4.4 Significance of environmental modifications
- 4.5 Creating sensory-friendly, predictable environments

## **Unit 5: Developing Behaviour Support Plans**

- 5.1 Understanding individual behaviour
- 5.2 Limitations and negative impact of the use of aversive and punishment procedures
- 5.3 Data-driven decision making
- 5.4 Collaboration and teamwork
- 5.5 Writing Individualised Positive Behaviour Support Plan

## **Transaction**

The concepts may be explained through real-life examples and selected case studies. Learners may be encouraged to conduct hands-on observations and critically review the materials.

- Lectures and discussions
- Field visits
- Hands-on experiential demonstrations
- Workshops and seminars
- Self-study and use of online resources
- Presentations and projects

## **Course work/Practical/Field Engagement**

- Observation and functional analysis of the behaviour
- Development of an individualised PBS plan in different settings: educational, home, public places

## **Recommended Readings**

<https://www.unicef.org/easterncaribbean/media/1191/file/7-Key-Steps-to-Implementing-Positive-Behavioural-Systems-at-You-School-2017.pdf>

# Early Childhood Care and Education

Course Code: B 6 (C)

Credits: 02

Hours: 60

## Introduction

The course is designed to provide the learners with an insight into importance of early childhood period especially the critical period of growth and development. Knowledge about the Domains of development and important milestones of typical children in this course will help in identifying delays, at risk children and refer them for assessments. The identified young children with disabilities could be supported through interventional play based activities in an ECCE program. So the overall aim of the course is to facilitate inclusion ECCE practices right from the start.

## Objectives

After undertaking the course the student-teachers will be able to

- Explain the various domains of development.
- Describe ways to identify at risk children and use screening tools
- Describe the provisions and requirements for ECCE
- Enumerate the inclusive early education pedagogical practices.
- Describe the requirements for school readiness and transitioning

## Unit 1: The Early Years: An Overview

- 1.1 Growth and development – Factors affecting growth and development, Principles of development, ages and stages of development
- 1.2 Critical period of development and Neural Plasticity
- 1.3 Sensitive Periods of Learning: Maria Montessori's Framework & Windows of opportunity for learning
- 1.4 Domains of development: 1) Physical, motor & health 2) Communication and language, 3) Cognition, 4) Socio-emotional and 5) Approaches to learning
- 1.5 Significant milestones under each domain and red flags

## Unit2: Early Childhood Education & Intervention

- 2.1 Young children at risk as a result of physical and environmental factors and those resulting from individual and family circumstances.
- 2.2 Developmental checklists for screening & referrals
- 2.3 Developmental Systems Model for Early Intervention
- 2.4 Cross disability approach for early intervention
- 2.5 Play as a tool for screening children

*R. L. S.* *S. J. S.*

*A. S.*



### **Unit 3: Requirements and provisions for Inclusive ECE**

- 3.1 Service Delivery systems for ECCE and EI : ICDS under Ministry of Women & Child development, DECIC under MoH and CDEIC under DEPwD of MSJ&E
- 3.2 The ecosystem model for inclusive ECCE: Provisions at individual (child and family outcomes) micro system (Peer and teacher interactions), meso system (curriculum and professional team approach) , exosystem (community participation), and macro-level (national policy provisions).
- 3.3 National and Global provisions: UNCRC (1989) & Protocols, The commission for protection of child rights (2005), Prohibition of child marriage Act (2006),POCSO (2012), Juvenile Justice (Care and Protection of Children) Act (2015), Child labour (Prohibition and Regulation) Amendment Act (2016) NEP 2020 provisions for ECCE
- 3.4 Setting up of Inclusive ECCE: Infrastructural requirements, curriculum and collaborative practices
- 3.5 Importance of Natural Environments and role of family in developing Individualized Family Service Plan (IFSP)

### **Unit 4 Inclusive Pedagogical practices**

- 4.1 Integrating Theories of Development into pedagogical practices
- 4.2 Types and Stages of play – Symbolic play and its importance for the children with Disabilities
- 4.3 UDL based activities in ECCE
- 4.4 Developing Creativity, critical thinking, language, communication, Literacy, Numeracy through Activity Based Learning
- 4.5 Developing musical, aesthetic, scientific & cultural Skills in young children

### **Unit 5 School Readiness and Transitions**

- 5.1 Children's readiness for school and school readiness for children
- 5.2 Indicators of school readiness
- 5.3 NIPUN Bharat's Goals and competencies for school readiness
- 5.4 Transitioning from Home to inclusive ECCE
- 5.5 Transitioning from inclusive ECCE to inclusive schools

### **Practical/ Field Engagements**

- Developing a journal on developmental milestones & learning timelines of children from 0 to 8 years
- Participation in workshop & develop five creative teaching learning materials for children in inclusive early childhood education programs

- Develop and IFSP and a Transition plan

## Transactions

Visits, Observations & Workshops.

## Suggested Readings

- Barbour, N., & Seefeldt, C. (1998). Early Childhood Education. An Introduction (4<sup>th</sup> Ed). U.K: Prentice Hall.
- Broman, B. C. (1978). The Early Years in Childhood Education. Chicago: Rand McNally College Publishing Company.
- Catron, C.E., & Allen, J. (1993). Early Childhood Curriculum. New York: MacMillanPublishing Company.
- Costello, P.M. (2000). Thinking Skills & Early Childhood Education. London: DavidFulton Publishers.
- Dahlberg, G., Moss, P. & Pence, A. (2007). Beyond Quality in Early Childhood Careand Education. (2<sup>nd</sup> Ed.). New York: Routledge Publication.
- Desparabhu, S. (2019). Early Childhood Special Education – An Introduction. Kanishka Publishers, Distributors. New Delhi
- **Dunn, S.G., & Dunn, K. (1992). Teaching Elementary students through their individual learning styles: Practical approaches for grades 3-6. Massachusetts: Allyn & Bacon.**
- **Cross Framework for Cross Disability Early Intervention & School Readiness PEHAL (Birth to 3 years) NIPUN Inclusive (3 to 6 years) RCI DEPwD of MSJE [https://rehabcouncil.nic.in/sites/default/files/pratham\\_book.pdf](https://rehabcouncil.nic.in/sites/default/files/pratham_book.pdf)**
- Guralnick, M.J. (2005). The Developmental Systems Approach to Early Intervention:Brookes Publication.
- Klausmeir, H. J., & Sipple, T.S. (1980). Learning & Teaching Concepts. A strategy fortesting applications of theory. New York: Academic Press.
- Mohanty, J., & Mohanty, B. (1999). Early Childhood Care and Education. Delhi: Offset Printers.
- Mohite, P. & Prochner, L. (2008). Early Childhood Care and Education. Concept publishing Company. New Delhi.
- **NCFFS (2022) National Curricular for Foundational Stage , NCERT,DOSEL, MoE New Delhi**
- Sen Gupta, M. (2009). Early Childhood Care and Education. PHI Learning Private Limited. New Delhi.
- Venkatacharya, P., Reddy, K. S. & Shridevi, k. (2018). Early Childhood Care and Education. Neelkamal Publications Private Limited. New Delhi.

*R. L. ...* *Shridevi* *J.* *S.*



## Web references

- [https://depts.washington.edu/chdd/guralnick/pdfs/overview\\_dev\\_systems.pdf](https://depts.washington.edu/chdd/guralnick/pdfs/overview_dev_systems.pdf)
- [https://wcd.nic.in/sites/default/files/national\\_ecce\\_curr\\_framework\\_final\\_03022014%20%282%29\\_1.pdf](https://wcd.nic.in/sites/default/files/national_ecce_curr_framework_final_03022014%20%282%29_1.pdf)
- [https://ncert.nic.in/dee/pdf/smooth\\_successful.pdf](https://ncert.nic.in/dee/pdf/smooth_successful.pdf)
- [https://ncert.nic.in/pdf/VidyaPravesh\\_Guidelines\\_GradeI.pdf](https://ncert.nic.in/pdf/VidyaPravesh_Guidelines_GradeI.pdf)
- <https://www.right-to-education.org/issue-page/early-childhood-care-and-education>
- [https://itpd.ncert.gov.in/pluginfile.php/1541285/mod\\_resource/content/1/1\\_7\\_eng\\_ecce\\_in\\_india.pdf](https://itpd.ncert.gov.in/pluginfile.php/1541285/mod_resource/content/1/1_7_eng_ecce_in_india.pdf)

# Community-Based Rehabilitation

Course Code: B6 (D)

Credits: 02

Hours: 60

## Introduction:

The course is designed to help the learners understand the importance of Community Based Rehabilitation, and its impact on the lives of persons with other disabilities. The course will also facilitate the learning about mobilising the resources from the community and its utilisation for the benefit of persons with disabilities and their families. The course content provides inputs about role of OPDs, siblings' groups, SHGs and will help to gain knowledge about participatory approach in CBR.

## Objectives

After completing this course the learners will be able to

- Explain the concept, principles and scope of community-based rehabilitation.
- Learn the strategies for promoting public participation in CBR.
- Apply suitable methods for preparing persons with disability for rehabilitation within the community.
- Provide need-based training to persons with disabilities.
- Develop an understanding of the role of government and global agencies in CBR.
- Develop an understanding of the roles played by OPD members and siblings

## Unit 1: Introduction to Community Based Rehabilitation (CBR)

- 1.1 Concept and Definition of CBR
- 1.2 Principles of CBR
- 1.3 Difference between CBR and Institutional Living
- 1.4 Socio-cultural and Economic Contexts of CBR
- 1.5 Scope and Inclusion of CBR in Government Policies and Programs

## Unit 2: Preparing Community for CBR

- 2.1 Awareness Program-Types and Methods
- 2.2 Advocacy - Citizen and Self
- 2.3 Focus Group Discussion
- 2.4 Family Counselling and Family Support Groups
- 2.5 CBR and Corporate Social Responsibility

## Unit 3: Preparing Persons with Disability for CBR

- 3.1 School Education: Person-Centred Planning, and Peer Group Support
- 3.2 Transition: Individual Transition Plan, Development of Self Determination and Self Management Skills
- 3.3 Community Related Vocational Training
- 3.4 Skill Training for Living within Community
- 3.5 Community Based Employment and Higher Education

## Unit 4: Inclusive Community Development

- 4.1 Community, Disability and Development
- 4.2 Mapping of resources in the community
- 4.3 Advocacy and collaboration with government departments
- 4.4 Identifying needs of families and developing IFSP
- 4.5 Disability and poverty



B.Ed.Spl.Ed./2024-25  
Rehabilitation Council of India 64



## **Unit 5: Mobilising Community for inclusion of persons with disabilities**

- 5.1 Promoting OPD and their roles in CBR
- 5.2 Promoting Sibling Groups
- 5.3 Inclusion of PwDs in SHG
- 5.4 Inclusion of PwDs in Panchayat-Raj
- 5.5 Participatory approach of CBR

### **Transaction**

Besides the lecture method the topics in this course may be transacted through discussion on selected case studies, classroom seminar/debates and visit to community to interact with OPDs and SHGs.

### **Course work / Field Engagement**

- Visit an ongoing CBR program and write a report on its efficacy
- Organize a community awareness program
- Conduct a focus group discussion on a selected disability issue with school/college students

### **Recommended readings**

- Loveday, M. (2006). The HELP Guide for Community Based Rehabilitation Workers: A Training Manual. Global-HELP Publications, California.
- McConkey, R. and O'Tool, B (Eds). Innovations in Developing Countries for People with Disabilities, P.H. Brookes, Baltimore.
- Neufelt, A. and Albright, A (1998). Disability and Self-Directed Employment: Business Development Model. Campus Press Inc. York University.
- Peat, M. (1997). Community Based Rehabilitation, W.B. Saunders Company.
- Scheme of Assistance to Disabled for Purposes of Fitting of Aids/Appliances(2014). Ministry of Social Welfare, Govt. of India, New Delhi.
- Scheme of Assistance to Organizations for Disabled Persons, Ministry of Social Welfare, Govt. of India, New Delhi.
- WHO .(1982). Community Based Rehabilitation — Report of a WHO International Consultation, Colombo, Sri Lanka, 28 June- 3 July. WHO (RHB/IR/82.1)
- WHO .(1984). "Rehabilitation For All" in World Health Magazine, WHO, Geneva.

# Application of ICT in Education

Course Code: B6(E)

Credits: 02

Hours: 60

## Course Description

This course has dual purpose: firstly it aims to orient the teacher trainee to various applications of Information and Communication Technology in teaching learning process; and secondly it intends to orient the learners to understand the scope and application of ICT for students with disabilities. The course includes uses of all kinds of media and computer in order to give hands on experience of applying ICT in various learning environments as well to familiarize the student teacher with different modes of computer-based learning.

## Learning Outcomes

After completing the course, the learners will be able to

- Gauge the varying dimensions in respect of ICT and Applications in Special Education.
- Delineate the special roles of ICT Applications.
- Acquire Familiarity with Different Modes of Computer-Based Learning.
- Describe the application of ICT in Inclusive setups
- Explain the policy provisions for ICT

## Unit 1: Information Communication Technology (ICT) and Special Education

1.1 Meaning, Definitions and Importance of ICT

1.2 Scope of ICT in Teaching Learning Process, Assessment, Administration and Research

1.3 Role of ICT in 'Construction of Knowledge' (Constructivism & ICT)

1.4 Integrating ICT in Special Education and its Application

1.4 Challenges of ICT in Education

## Unit 2: ICT, Computer and Communications

2.1 Communicative Skills & ICT (Supporting Listening, Speaking, Reading & Writing for different groups)

2.2 Mass Communication Media: Radio, Television, Newspaper, Magazines, Internet based Social Media

2.3 Computers: Functional Knowledge, Using Word Processing, Spreadsheet and Presentation Software

2.4 Computer as a Learning Tool: Effective Browsing; Cross Collating Knowledge from Varied Sources

2.5 Communication with Stakeholders & Use of ICT

## Unit 3: Visualising Technology-Supported Learning Situations

3.1 Preparation of Learning Schemes and Planning Interactive Use of ICT

3.2 Developing PPT Slide Show for Classroom

3.3 Organising virtual classroom and virtual meetings

*R-2000* *Shyama* *d*

B.Ed.Spl.Ed./2024-25  
Rehabilitation Council of India 66





- 3.4 Organizing Teleconferencing and Video-Conferencing
- 3.5 Assessment Strategies and Scope of ICT

#### **Unit 4: ICT Ecosystem for Inclusive Education**

- 4.1 Creating ICT Ecosystem in the school for inclusive education– hardware, software –
- 4.2 Use of OERs; Free and Open Source Software (FOSS)
- 4.3 Assistive Technologies and ICT for planning and classroom management
- 4.4 MOOCs, e groups, e-forums, etc (National level Initiatives)
- 4.5 E-Classroom: Concept, and Required Adaptations for Students with Disabilities

#### **Unit 5: Policy, Legal & Ethical Concerns**

- 5.1 Security Threats and Measures; Cyber privacy and Netiquette
- 5.2 National Level initiatives for promotion of E-learning
- 5.3 Ethical Practices; Cyber laws and Child Safety
- 5.4 International and National Policy concerns on Use of ICT in education
- 5.5 Overview of WCAG (Web Content Access Guidelines)

#### **Course Work/ Practical/ Field Engagement (any Two of the following)**

- I. Develop a script on any topic of your choice. Conduct an interview with an expert on the selected topic to prepare an audio or video program of 15 minutes duration
- II. Prepare a PPT by inserting photos and videos on a topic of your choice
- III. Create your email account as well as design a blog
- IV. Enrol and complete MOOC courses in Swayam Portal
- V. Analyse OERs on National Platform, write the features and characteristics of these OERs

#### **Suggested Reading**

- Kozma, R.B. (2003). Technology, Innovation, and Educational Change: A Global Perspective: A Report of the Second Information Technology in Education Study, Module 2. International Society for Technology in Education.
- Abbot, C. (2001). ICT: Changing Education. Routledge Falmer.
- Florian, L., & Hegarty J. (2004). ICT and Special Educational Needs: A Tool for Inclusion. Open University Press, Maidenhead.
- CEMCA (2016). Resource Book on ICT Integrated Teacher Education. The Commonwealth Educational Media Centre for Asia (CEMCA).
- UNESCO (2023). UNESCO's ICT Competency Framework for Teachers

# Disability, SEDGs, and Gender

Course Code: B 6 (F)

Credits: 02

Hours: 60

## Introduction

This course will prepare learners to develop an understanding about the intersectionality of disability with Gender and other Socio Economic disadvantaged Groups (SEDGs). The purpose is to inculcate the human oneness and valuing and respecting persons with disabilities regardless of their socio-cultural identities, gender, geographical conditions and socio-economic backgrounds. This course is also aimed at creating awareness among the learners about the legal provisions for empowerment of persons with disabilities belonging to different socio-economically disadvantaged groups (SEDGs). The expected long term benefit is to develop knowledge, skills and attitude among learners about the sensitivity and vital points of considerations while planning and executing learning activities for students with disabilities belonging to diverse SEDGs.

## Objectives

After completion of this course the student-teachers will be able to

- Develop an understanding of human rights based approach in context of disability, human values and co-existence of disability among socio-economically disadvantaged groups..
- Explain the socio-demographic perspectives of gender and disabilities, compounding impact of gender and disability, legal safeguard for girls and transgender and gendered experiences of students with disabilities.
- Describe the socio-cultural and educational issues and concerns of students with disabilities belonging to Socio-cultural groups (ST, SC, OBC and Minorities), educational programmes and role of a teacher.
- Illustrate the challenges in education of students residing in difficult and aversive geographical terrains, educational initiative and role of a teacher
- Enlist the challenges faced by children with disabilities in difficult circumstances, analyse the disadvantageous impact on the CwDs and plan out the educational intervention programmes for them.

## Unit 1: Human Rights, human values and disability

1.1 Human rights-based approach: Concept, history and advantages

1.2 Principles of human rights-based approach- Equality and non-discrimination, universality & inalienability, participation and inclusion, interdependence and interrelatedness, accountability and rule of law

1.3 Instruments of human rights system- Legal frameworks, policies & programmes, resources and supports, public awareness-information, education and communication (IEC), establishments, networking and collaborations with different societal spheres

1.4 Human values and disability- Social existence of disability, human diversity and rights, empowerment, enforceability, indivisibility, participation, legal and social protection, safety and security, and advocacy



B.Ed.Spl.Ed./2024-25  
Rehabilitation Council of India 68



- 1.5 Socio-Economically Disadvantaged Groups (SEDGs) and human empowerment– SEDGs- social and legal identities, their socio-economic conditions, empowerment provisions for their health care, education, employment, legal protection and justice, accessible public spaces and services, social inclusion and community participation.

## **Unit 2: Gender Identity and disability**

- 2.1 Gender and socialization practices - gender and sex, stigma and discrimination, gender roles and responsibilities, socialization of boys, girls and transgender in family and society.
- 2.2 Disability and socialization practices- gendered disability, stigma and discrimination, violence, individuals with disability and their roles and responsibilities, socialization of boys, girls and transgender with disability in family and society.
- 2.3 Legal safe guards for girls and transgender with and without disability- Constitutional provisions, PWDV Act 2005, POCSO-2012, JJ Act 2015, RTE (amendment) Act 2012 and, RPwD Act 2016, Transgender Persons (Protection of Rights) Act, 2019, The Criminal Law (Amendment) Act, 2013 & 2018
- 2.4 Gendered experience of students with disability- Residential and non-residential schools, classrooms and beyond, curriculum, learning activities, textbooks, assessment, equity and social role valorization, implications for teaching and learning in different learning centres.
- 2.5 Educational initiatives and teachers' role: Policy, schemes and programmes, gender inclusion fund, measures for empowerment of girls, women and transgender with disability on enhancing quality of their socio-economic conditions, education, health (including sexual, reproductive and mental health), employment, life-style.

## **Unit 3: Disability and Socio-cultural groups**

- 3.1 Socio-Cultural Groups- Constitutional and social identities, educational and social rights, policy and programmes for scheduled tribes, scheduled castes, other backward classes, linguistic and religious minority groups.
- 3.2 Socio-educational issues and concerns- marginalization, discrimination and social exclusion, harassment, poverty, social mores & customs, language, inaccessibility to quality schools.
- 3.3 Gendered disability among socio-cultural groups- multiple and compound impacts of disability and disadvantage, lack of resources and supports, underrepresentation in schools.
- 3.4 Educational initiatives: Identification of untapped talents among SEDGs, inclusion fund, up gradation and strengthening of schooling system, academic activities under tribal sub-plan and scheduled caste sub plan, relaxations and reservation schemes, scholarships and other incentive schemes.
- 3.5 Teachers' role in promoting equality and inclusion- respect and acceptance of socio-cultural conditions, contextualization of curriculum, multilingual pedagogical approach, skills of multi-grade teaching, identification of socio-cultural milieu and other resources, use of socio-cultural capital of learners in teaching and learning.

## **Unit 4: Disability and Geographical conditions**

- 4.1 Geography and disparity in education - inter and intra states disparity, poverty, specific issues of coastal areas, hilly areas, desert, natural disasters prone areas, developmental projects area, international boundaries area.
- 4.2 Geographical conditions and disability- issues related to different geographical terrains,



access to education, access to rehabilitation services, infrastructural conditions, language and culture, availability and accessibility of resources, services, information, communication and transport.

- 4.3 Educational initiatives in difficult terrains: Government schemes and programmes, intervention in aspirational districts, PM- New15 point programmes, Special Education Zones, residential schooling, alternative forms of schooling, scholarships and other incentive schemes.
- 4.4 Local governance and collaboration: understanding the local governance, resource identification and resource mobilization, collaboration with local organizations and community.
- 4.5 Teachers' role in promoting equality and inclusion- understanding the geographical conditions and learning needs of children, adjustment of learning spaces, adaptation and accommodation in scheduling of learning activities and timings, adaptation in curriculum, teaching-learning, assessment, harnessing technology.

#### **Unit 5: Disability, Socio-economic and other disadvantaged conditions**

- 5.1 Disability and poverty: Occurrence of disability, discrimination and vulnerability, other interacting factors like family interaction, child rearing, nutrition, social and physical well-being, employment.
- 5.2 Disability in migrant community, refugees, construction workers- CwDs in migrating families, ambiguous sense of belongingness, lack of housing and inaccessible living arrangements, experiences of simultaneous discrimination, health and social relations, sense of helplessness.
- 5.3 Children with disability in chronic distress and at risk conditions- CwDs of chronically ill parent(s), sex-workers, single parents, prisoners, CwDs in juvenile/observation homes, CwDs engaged in substance abused, CwDs living in vulnerable situations, orphans with disabilities, child beggars, destitute CwDs, victims with disabilities of or CwDs of victims of trafficking, victims with disabilities of disasters, social conflicts, war and other human actions.
- 5.4 Educational initiatives: Policy, schemes and programmes, short-term mitigating interventions and long term sustainable interventions, educational opportunities in mobile schools, schools on wheel/tents, porta-cabin schools, learning in shelter homes, services of counselors, social workers and volunteers as in NEP 2020.
- 5.5 Teachers' role in promoting equality and inclusion- learning opportunities in difficult situations, curricula alignment, designing of portable learning aids, package programming and digital education, developing information and community support mechanism, working with family in distress, identifying and use of strengths within at risk community, resourcefulness and service provision in crisis situation, inter and intra linkages in community and bridging the gap between the school and community.

#### **Transaction**

This course has been designed to provide the student teachers a socio-cultural perspective to disability. It aims to promote awareness about the space for disability equity and rehabilitation within the human rights system. As such the transaction of the course topics should be done through focus group discussions, issue-based classroom interactions in addition to lectures and seminars. Field-visits, cross-sectional survey, case studies, assignments and projects should be added to strengthen the transactional process and learning.





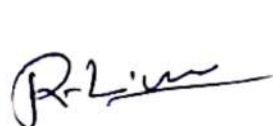
### Course work/Practicum/Field Engagement

- Design activity- log to establish a Gender Justice Club or Disability Support Circle in school.
- Study the case of a woman with disability and submit a report.
- Explore internet and document case-studies of transgender with disability
- Review selected paper/s authored by women with disability
- Conduct a gender analysis of a selected disability Act/policy
- Interact with children and families of socio-cultural groups, identify the challenges of education and prepare a plan of action.
- Visit to observation homes/shelter homes/homes of construction workers, migrant families in your locality, interact with CwDs and families at risk and prepare a package programme for her/his holistic development.

### Recommended Readings

- Alber, B. and Hurst, R. (2004). Disability and a human rights approach to development. Disability Knowledge and Research. (available at [www.disabilitykar.net](http://www.disabilitykar.net))
- DGS (2021). Inclusion of Transgender Children in School Education: Concerns and Roadmap. Department of Gender Studies, National Council of Educational Research and Training, New Delhi.
- DoSEL (2020). National Education Policy-2020. Department of School Education and Literacy. Ministry of Human Resource Development (Now Ministry of Education), New Delhi.
- Ghosh, M. (2015). Disability and women: A Note on the Tribal Aboriginals in Darjeeling Hills. International Journal of Scientific Research, 4(4), doi:10.36106/ijsr
- Gobinda C. Pal (2010). Dalits with Disabilities: The Neglected Dimension of Social Exclusion. Working Paper Series Indian Institute of Dalit Studies New Delhi
- Habib, L. A. (1997). Gender and Disability: Women's Experiences in the Middle East. Oxfam, UK.
- Hans, A. (2015). Disability, Gender and the Trajectories of Power. Sage Publications Pvt. Ltd. New Delhi.
- Meekosha, H. (2004). Gender and Disability. Sage Encyclopaedia of Disability.
- NCERT (2006). Position Paper-National Focus Group on Gender Issues in Education. National Council of Educational Research and Training, New Delhi.
- NCERT (2013). Training Material for Teacher Educators on Gender Equality and Empowerment. National Council of Educational Research and Training, New Delhi.
- NCERT (2017). Minority Education- Policies, Programmes and Schemes-Frequently Asked Questions. National Council of Educational Research and Training, New Delhi.
- NCERT (2017). Modules for Enhancement of Quality Education-Issues, Challenges and Concerns of Scheduled Castes (A Training Package). National Council of Educational Research and Training, New Delhi.
- NCERT (2020). Inclusion in Education-A Manual for School Management Committee. National Council of Educational Research and Training, New Delhi.

- NCERT (2020). Inclusion in Education-A Manual for School Management Committee. National Council of Educational Research and Training, New Delhi.
- NCERT (2021). Educational Rights of Children with Special Needs-Frequently Asked Questions. National Council of Educational Research and Training, New Delhi.
- O'Brien, J., & Forde, C. (2008). Tackling Gender Inequality, Raising Pupil Achievement. Dunedin Academic Press, Edinburgh.
- Pal, G.C. (2010). Dalits with Disabilities: The Neglected Dimension of Social Exclusion. Working Paper Series, Indian Institute of Dalit Studies, New Delhi.
- Purkayastha, D. (2010). Economic Growth, Intra-Household Resource Allocation and Gender Inequality. Atlantic Economic Journal, 38(4), 465-466.
- Ridgeway, C. L. (2011). Framed by Gender: How Gender Inequality Persists in the Modern World. Oxford University Press, New York.
- Samuels, E. (2014). Fantasies of Identification: Disability, Gender, Race. NYU Press, New York.
- SCSTRTI (nd). Study on Cost Disability in TSP Areas of Chhattisgarh, Jharkhand and Odisha. Scheduled Caste and Scheduled Tribe Research and Training Institution, Govt. of Odisha.
- Smith, B. G., & Hutchison, B. (2013). Gendering Disability. Rutgers University Press, New Jersey.
- THE Criminal Law (Amendment) ACT, 2018 Available at [https://www.mha.gov.in/sites/default/files/CSdivTheCriminalLawAct\\_14082018\\_0.pdf](https://www.mha.gov.in/sites/default/files/CSdivTheCriminalLawAct_14082018_0.pdf)
- The Criminal Law Amendment Act 2013, available at [The Criminal Law Amendment Act 2013\\_0.pdf](https://www.mha.gov.in/sites/default/files/The_Criminal_Law_Amendment_Act_2013_0.pdf)
- The Juvenile Justice (Care and Protection of Children) Act, 2015, available at <https://www.indiacode.nic.in/bitstream/123456789/8864/1/201602.juvenile2015pdf.pdf>
- The Protection of Children from Sexual Offences Act, 2012, available at [https://l1ddashboard.legislative.gov.in/sites/default/files/The\\_Protection\\_of\\_Children\\_from\\_Sexual\\_Offences\\_Act\\_2012.pdf](https://l1ddashboard.legislative.gov.in/sites/default/files/The_Protection_of_Children_from_Sexual_Offences_Act_2012.pdf),
- The Protection of Women from Domestic Violence Act, 2005, available at <https://l1ddashboard.legislative.gov.in/sites/default/files/A2005-43.pdf>
- The Right of Children to Free and Compulsory Education Amendment Act 2012, available at [https://www.l1dexplained.org/wp-content/uploads/2022/01/Right-of-Children-to-Free-and-Compulsory-Education-Amendment-Act-2012-English-Copiable\\_Searchable.pdf](https://www.l1dexplained.org/wp-content/uploads/2022/01/Right-of-Children-to-Free-and-Compulsory-Education-Amendment-Act-2012-English-Copiable_Searchable.pdf)
- The Rights of Persons with Disabilities Act, 2016, available at <https://www.iitg.ac.in/eo/sites/default/files/RPwDAct2016.pdf>
- The Transgender Persons (Protection of Rights) Act 2019 [https://the.nic.in/Central\\_Governmental\\_Acts/Transgender\\_Persons\\_\(Protection\\_of\\_Rights\)\\_Act,\\_2019.pdf](https://the.nic.in/Central_Governmental_Acts/Transgender_Persons_(Protection_of_Rights)_Act,_2019.pdf)
- Treas, J., & Drobnic, S. (2010). Dividing the Domestic: Men, Women, and Household Work in Cross-National Perspective. Stanford University Press, Stanford.







B.Ed.Spl.Ed./2024-25  
Rehabilitation Council of India 72





# ASSESSMENT AND IDENTIFICATION OF NEEDS

Course Code: C1(SLD)

Credits: 02

Hours: 60

## Introduction

This course is planned to orient and educate the learners in understanding the condition of Learning Disability (SLD), the various types of SLD, and acquiring the skills of assessment in different domains and curricular areas, and diagnosing the condition. Along with the exposure to the standardized tools of assessment, the informal assessment tools are introduced. The skills in development and use of these tools will help them in conducting comprehensive assessment for programme planning.

## Objectives

*After completing the course, the learners will be able to*

- Discuss the concept, the history, causes and manifestations of SLD
- Describe and differentiate among different types of SLD
- Describe the various assessment tools used for assessment of SLD
- Develop tools and conduct assessment of SLD in various domains
- Develop tools and conduct assessment of SLD in various curricular areas

## Unit 1: Introduction to Specific Learning Disability (SLD)

- 1.1 History of SLD (International and National)
- 1.2 Definition (NJCLD, 2022 and RPwD, 2016)
- 1.3 Prevalence of SLD
- 1.4 Etiology of SLD- medical and social; co-morbidity of SLD with ADHD
- 1.5 Implications of SLD as an invisible disability; myths, and misconceptions

## Unit 2: Types of SLD

Characteristics of the following across the life span

- 2.1 Reading
- 2.2 Writing
- 2.3 Mathematics

Characteristics and educational implications of

- 2.4 Dyspraxia; Developmental aphasia
- 2.5 Non-verbal LD

## Unit 3: Assessment of SLD

- 3.1 Concept of screening and identification; differential diagnosis
- 3.2 Identification criteria – Latest DSM
- 3.3 Types of assessment tools – Criterion referenced tests, norm referenced tests, teacher made tests (TMTs), curriculum based tests, curriculum based assessments, curriculum based measurements, portfolios, checklists, rating scales, anecdotal records, observation schedules



(WISC, SPM, CPM), Diagnostic (DTLD, DTRD, Aston Index, NIMHANS SLD Index), Achievement (GLAD, WRAT)

3.5 Guidelines and procedure for assessment of SLD for certification in India

#### **Unit 4: Domains of Assessment**

- 4.1 Motor
- 4.2 Perceptual
- 4.3 Cognitive
- 4.4 Social-Emotional
- 4.5 Language

#### **Unit 5: Assessment of Curricular Areas**

- 5.1 Readiness skills
- 5.2 Reading (accuracy, reading comprehension, and fluency)
- 5.3 Spelling
- 5.4 Writing (hand writing and written expression)
- 5.5 Mathematics (number sense, language, maths facts, computation, problem solving)

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

- Review a movie or documentary on SLD to understand the condition
- Develop TMTs to assess various domains and curricular areas
- Diagnose the needs of the students based on case profiles

#### **Recommended Readings**

- Bender, W. (2008). Learning Disabilities: Characteristics, Identification, and Teaching Strategies, Ohio: Pearson/Allyn and Bacon
- Hayes, A.M., Dombrowski, E., Shefcyk, A., and Bulat, J. (2018). Learning Disabilities Screening and Evaluation Guide for Low- and Middle-Income Countries. RTI Press Publication No. OP-0052-1804. Research Triangle Park, NC: RTI Press. <https://doi.org/10.3768/rtipress.2018.op.0052.1804>
- Jena, S.P.K. (2013). Specific Learning Disabilities: Theory to Practice. Sage Publications, New Delhi
- Kapur, M., John, A., Rozario, J., & Oommen, A. (2002). 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.
- Lee, S.H., Harris Karen R., & Graham, S. (2003). Handbook of Learning Disabilities. The Guilford Press, New York.
- Lerner, J. W., & Beverly, J. (2014). Learning Disabilities and Related Disabilities: Strategies for Success, New York: Cengage Learning
- Nakra, O. (2023). Children and Learning Difficulties. Allied Publishers.
- Raj, F. (2010). Breaking Through – A hand book for parents and teachers of children with specific learning disabilities. Vifa Pub, Secunderabad.



- Reddy L. G., Ramaa, R., & Kusuma, A. (2000). Learning Disabilities: A practical Guide to Practitioners. Discovery Publishers, New Delhi.
- Venkateshwarlu, D. (2005). Diagnosis and remediation of mathematical difficulties. Neel Kamal publications, New Delhi.

<https://www.verywellfamily.com/how-learning-disabilities-can-affect-behavior-2161916>  
[www.DyslexiaIDA.org](http://www.DyslexiaIDA.org)

<https://www.accessibletextbooksforall.org/stories/creating-learn-my-way-epub-and-reader>

<https://www.twinkl.co.in/>

R. Lina      R. Lina



# CURRICULUM DESIGNING, ADAPTATION AND EVALUATION

Course Code: C2 (SLD)

Credit: 02

Hours: 60

## Introduction

The thrust of this course is on comprehending the key ideas related to curriculum, curriculum designing, curriculum adaptation, and curriculum evaluation.

The first unit is about different designs of curriculum wherein the UDL needs to be looked at from the inclusive education perspective. The second unit needs to be studied as the emphasis is on inclusion, hence curriculum hierarchies are essential to be understood. Unit three and four are about instructional planning and adaptations that will benefit students with Specific Learning Disability. Unit five is on evaluation where different kinds of evaluation must be studied, to be able to choose the appropriate tool for evaluation.

## Objectives

*After completing the course, the learners will be able to*

- Describe the principles, types, and areas of curriculum
- Discuss the structure and scope of the content across various curricular areas and subjects
- Demonstrate the different ways of planning instruction
- Demonstrate skills in applying different adaptations for inclusive education
- Make effective use of different forms of evaluation

## Unit 1: Curriculum Designing

- 1.1 Curriculum: Meaning and elements; difference between curriculum and syllabus
- 1.2 Types of curricula - Core, collateral, support, hidden, subject centered, learner centered, learning centered
- 1.3 Curriculum design: Concept and definition
- 1.4 Principles of curriculum design
- 1.5 Principles of an inclusive curriculum design

## Unit 2: Curriculum Hierarchies

- 2.1 Reading (English and any regional language)
- 2.2 Writing
- 2.3 Mathematics
- 2.4 Science
- 2.5 Social studies

## Unit 3: Instructional designing and planning

- 3.1 Instructional design: Meaning and steps (ADDIE Model, and Dick and Carey Model)
- 3.2 Instructional planning: meaning and steps
- 3.3 Instructional planning: pyramid plan, unit plan, and lesson plan design
- 3.4 Taxonomies of learning – Cognitive (Bloom's and Anderson's), Psychomotor & Affective
- 3.5 Instructional models – Direct instruction, Explicit direct instruction, Gradual release of responsibility, 5E instructional model



#### **Unit 4: Adaptation, Modification, Accommodation**

- 4.1 Definition and concept of adaptation, modification, accommodation; implications for students with SLD
- 4.2 Environmental adaptations – nature and types; Curriculum adaptations - Principles and steps of adaptation
- 4.3 Differentiated instruction – Meaning, process, and strategies
- 4.4 Individualised Education Programme/Plan - Need, scope, and process of development
- 4.5 Examination Provisions - CBSE, ICSE, IB, IGCSE, NIOS and various state boards.

#### **Unit 5: Evaluation**

- 5.1 Evaluation- Concept and scope (curriculum evaluation and student evaluation)
- 5.2 Curriculum evaluation types (formative, summative, diagnostic) and their purpose
- 5.3 Factors in curriculum evaluation
- 5.4 Tools for
  - 5.4.1 Programme evaluation
  - 5.4.2 Process evaluation
  - 5.4.3 Student evaluation
- 5.5 Evaluation of IEP as a curriculum – factors and key considerations

#### **Transaction**

Experiential method, discussion, debates, connecting with teachers, undertaking surveys etc. will give the student-teachers perspectives on this course. Collaborations with general education teachers for inputs in unit two will be helpful to understand the scope of the curriculum that a student with SLD needs to access in different subject areas.

#### **Coursework/ Practical/ Field Engagement**

- Adapt a lesson according to the needs of the identified student/class
- Plan a differentiated lesson for a given class
- Conduct a survey to understand the challenges teachers face in curriculum transaction
- Review existing lesson plans to identify the incorporation of various taxonomies of learning

#### **Recommended Readings**

- Angela, L., & Angela, S. (2011). *Alternative Approaches to Assessing Young Children*, Second Edition. Brookes Publishing Company, Baltimore.
- Hodkinson, A., & Vickerman, P. (2009). *Key issues in special educational needs and inclusion*. SAGE, Los Angeles.
- Jones, S. (2000). *Accommodation and modifications for students with hand writing problems and/or dysgraphia*
- Joyce, S. C. (2003). *Successful Inclusive Teaching: Proven Ways to Detect and Correct Special Needs*. Pearson, London.
- Joyce, S. C. et al., (1987). *Assessing and programming basic curriculum skills*. Allyn & Bacon, Boston.
- Margo, A. M., & Thomas E. S. (2009). *The Inclusive Classroom: Strategies for Effective Differentiated Instruction*. Pearson, London.
- Karten, T. J. (2010). *Inclusion strategies that work! Research-Based Methods for the*

- classroom. Corwin, California.
- William, N. B. (2007). Differentiating Instruction for Students With Learning Disabilities: Best Teaching Practices for General and Special Educators. Corwin, California

[https://council-for-learning-disabilities.org/wp-content/uploads/2017/07/CLD\\_EL\\_LD\\_Reading2016-FINAL.pdf](https://council-for-learning-disabilities.org/wp-content/uploads/2017/07/CLD_EL_LD_Reading2016-FINAL.pdf)

[www.nichcy.org/training/contents.asp](http://www.nichcy.org/training/contents.asp)

[www.ldonline.org/ld\\_indepth/writing/dysgraphia/](http://www.ldonline.org/ld_indepth/writing/dysgraphia/)

<https://www.bdadyslexia.org.uk/>

[www.ldonline.org/ld\\_indepth/writing/dysgraphia](http://www.ldonline.org/ld_indepth/writing/dysgraphia)

R. L. 






# Intervention and Teaching Strategies

Course Code: C3 (SLD)

Credit: 02

Hours: 60

## Introduction

This course will provide insight into the conceptual framework of the area of educational interventions. It will familiarize the learners with the strategies approaches and tools of assessment and seeks to develop an understanding of how interventions in the areas affected can be instrumental in enhancing performance. The course will prepare the student-teachers in helping children with learning disabilities by developing appropriate strategies and intervention plans for them. This will prepare them to work with students in clinical as well as classroom set-ups and arm them with programmes for assessment, goal setting, reviewing and reporting the success of the intervention targets.

## Objectives

After completing the course, the learners will be able to

- Explain the purpose and define the principles of educational intervention.
- Demonstrate the use of the intervention and teaching strategies in the process areas
- Demonstrate the use of the intervention and teaching strategies in the various curricular (reading, writing, mathematics) areas
- Demonstrate the use of the intervention and teaching strategies in the area of life skills

## Unit 1: Conceptual Framework of Educational Intervention

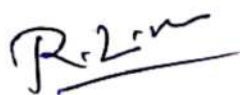
- 1.1 Definition, purpose, scope, and principles of educational intervention
- 1.2 Educational intervention: gap analysis and linkages with demands of school curriculum (Diagnostic Prescriptive Teaching)
- 1.3 Steps of intervention
- 1.4 Cascade of services and Response to Intervention
- 1.5 Issues and ethics in educational intervention

## Unit 2: Educational Interventions for Processing Deficit (strategies and techniques)

- 2.1 Attention
- 2.2 Perception
- 2.3 Memory
- 2.4 Thinking
- 2.5 Meta-cognition

## Unit 3: Reading and Writing Interventions

- 3.1 Principles of intervention in reading and writing
- 3.2 Strategies for developing word recognition skills, fluency and comprehension
- 3.3 Strategies for developing handwriting, spelling and written expression
- 3.4 Strategies for Reading and writing across the curriculum
- 3.5 Strategies for differentiation and inclusion in the classroom



#### **Unit 4: Interventions for Mathematics**

- 4.1 Principles for interventions in mathematics
- 4.2 Strategies for developing mathematical concepts
- 4.3 Strategies for developing computation, automaticity [timed tasks] and application
- 4.4 Strategies for problem solving
- 4.5 Accommodations [calculators, computers] in the mainstream classroom

#### **Unit 5: Intervention in Life Skills - strategies and techniques for**

- 5.1 Developing social skills - Social competencies, self-regulation, and self-advocacy
- 5.2 Developing study skills
- 5.3 Developing 21<sup>st</sup> century skills - Collaboration, communication, creativity, critical thinking
- 5.4 Soft skills - Presenting self, time management, decision making, mindfulness
- 5.5 Preparation for independent living; Career planning, leisure and recreation

#### **Transaction**

This course will be dealt with using lectures followed by projects in specific processing deficits and specific curricular deficits. Assignments, in order to align the strategies of intervention to the curriculum across grades can be taken up. Presentations based on educational intervention for a specific child can be examined. Discussion on issues in intervention and goal setting for educational intervention can be organized. The use and success of specific strategies and teaching technique can be observed during field work. Actual demonstration of the techniques can be provided to ensure hands on experience.

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

- Prepare an educational intervention plan/tool for a given process
- Prepare an educational intervention plan/tool for a given skill
- Plan a parental meet to discuss the intervention goals
- Collaborate with a specific subject teacher to set an intervention goal
- Conduct a workshop for mainstream teachers on educational interventions/classroom strategies

#### **Recommended Readings**

- Bird, R. (2013). *The Dyscalculia Toolkit: Supporting Learning Difficulties in Maths*. Sage, Los Angeles.
- Cummings, C. (2000). *Winning Strategies for Classroom Management Teaching*. Book News, Inc., Portland.
- Das, J. P. (2009). *Reading difficulties and dyslexia: An interpretation for teachers*. Sage Publications, New Delhi.
- Harwell, J. M., & Jackson, R. W. (2008). *The Complete Learning Disabilities Handbook: Ready-to-Use Strategies and Activities for Teaching Students with Learning Disabilities*. Jossey Bass Inc, San Francisco.
- Karten, T, J. (2007). *More Inclusion Strategies that work- aligning student strength with standards*. Corwin Press, CA.
- Lee. S H., Harris K, R., & Graham, S. (2003). *Handbook of Learning Disabilities*.





- The Guilford Press, New York.
- Lerner, J. W. (2011). Learning Disabilities. Houghton Mifflin Brookes, Boston.
- Martin, L. C. (2009). Strategies for Teaching Students with Learning Disabilities: Corwin Press, CA.
- Mather, N., & Goldstein, S. (2001). Learning Disabilities and Challenging Behaviors: A Guide to Intervention and Classroom Management, Brookes Publishing Company, Baltimore.
- Narayan, J. (2002). Educating children with learning problems in the primary school. NIMH, Secunderabad.
- Pandey J., & Thapa K. (2008). Perspectives on learning disabilities in India: Current practices and prospects. Sage Publications, New Delhi.
- Raj, F (2010) Breaking Through – A hand book for parents and teachers of children with specific learning disabilities, Vifa Publication, Secunderabad.
- Reddy L. G., Ramaa R., & Kusuma, A. (2000) Learning Disabilities: a practical Guide to Practitioners. Discovery Publishers, New Delhi.
- Tomlinson, C. A. (1999). The Differentiated Classroom: Responding to the Needs of All Learners. ASCD, Alexandria.
- Venkateswanshu, D. (2005). Diagnosis and remediation of mathematical difficulties. Neel Kamal publications, New Delhi.
- [http://www.childdevelopmentinfo.com/learning/learning\\_disabilities.shtml](http://www.childdevelopmentinfo.com/learning/learning_disabilities.shtml)
- [https://dse.education.gov.in/sites/default/files/2021-06/CWSN\\_E-Content\\_guidelines.pdf](https://dse.education.gov.in/sites/default/files/2021-06/CWSN_E-Content_guidelines.pdf)
- <https://www.accessibletextbooksforall.org/accessible-epub-guide>
- <https://www.cricksoft.com/uk/clicker>

R. L. S.

Arjun

✓

✓

# ICT & Assistive Technology

Course Code: C4 (SLD)

Credit: 02

Hours: 60

## Introduction

This course covers the integration of technology in the teaching learning process of the students with Specific Learning Disability. The focus of the course must be on what the technology device or software does for the individual/student not on the device itself. The units progress from understanding the meaning scope, to the use of technology for teaching and learning and ends with the issues that one faces while dealing with technology.

## Objectives

After completing the course, the learners will be able to

- Explain the meaning, scope, and use of technology
- Describe the application of technology
- Use the various types of technology for presenting, engaging and engaging students with SLD in classrooms
- Discuss the trends and issues related to the use of technology

## Unit 1: Concept of Technology

1.1 Meaning, need and significance of technology in education of children with SLD

1.2 ICT : Meaning and scope

1.3 Assistive technology (AT): Meaning and scope

1.4 Role & use of AT for children with SLD

1.5 Technology integration vs technology use in the curriculum

## Unit 2: Application of Technology

2.1 Implications of use of technology for inclusion

2.2 Application of Technology for lesson planning, creating worksheets, report writing

2.3 SETT (Student, Environment, Task and Tools) Framework and quality indicators of AT

2.4 Computer assisted instructions and Computer managed instructions

2.5 Cybernetics, E-Learning, use of internet and web search

## Unit 3: Technology for Content Presentation & Expression (Input and Output)

3.1 Content Presentation & Expression: Concept & scope

3.2 Visual mode- Large print displays, alternative colours to the screen, colour coding, smart boards, Multimedia Presentations, screen magnifiers

3.3 Auditory mode - text to voice, screen readers, FM Listening Systems, podcast

3.4 Cognitive – graphic organisers

3.5 Consideration for selection of tools – no tech, low tech, high tech, low cost, high cost





#### **Unit 4: Technology for Classroom Engagement**

- 4.1 Classroom engagement – Meaning and components
- 4.2 Reading, Writing & Mathematics - Talking books, recorder, optical character recognition , speech recognition systems, alternative writing surfaces , pencil grips , podcast, proof reading software, talking calculators, electronic math worksheets, fluidity software
- 4.3 Organising - Sticky notes, highlighter pens, or highlighter tape, graphic organisers, digital organisers
- 4.4 Types of programmes - Drill & practice, simulations, games, tutorial
- 4.5 Consideration for selection of programmes and tools in an inclusive class

#### **Unit 5: Trends & Issues in Using Technology**

- 4.1 Digital natives & digital immigrants
- 4.2 From isolation to inclusion
- 4.3 Parent/family involvement
- 4.4 Cyber safety
- 4.5 Evaluation of impact of technology– Social, ethical, and human

#### **Transaction**

Transaction for all units must be through experiential learning, discussion, debate, research & review, design and problem solve, colloquia (with instructional designers, software developers).

#### **Coursework/ Practical/ Field Engagement**

- Develop low cost material for presentation (for teachers)
- Develop low cost material for engagement
- Develop low cost material for expression
- Conduct a survey on the kind of assistive technology used in the schools for students with Specific Learning Disability and present the findings

#### **Essential Readings**

- Amy, G. D., & Deborah, N. (2011). Assistive Technology in the Classroom: Enhancing the School Experiences of Students with Disabilities. Pearson, London.
- Dian, P. B., & Brian R. B. (2011). Assistive Technology for People with Disabilities. Pearson, London.
- Joan, G. (2011). The Ultimate Guide to Assistive Technology in Special Education: Resources for Education, Intervention, and Rehabilitation. Prufrock Press Inc., Texas.
- Kimberly, S. V. (2005). Teaching by Design: Using Your Computer to Create Materials for Students with Learning Differences. Woodbine House, Bethesda.
- Cook, A.M., & Polgar, J.M. (2012). Essentials of Assistive Technologies. Mosby, Missouri.
- Lever-Duffy, J., & McDonald. J. (2010). Teaching and Learning with Technology. Pearson, London.
- Newby, T.J. (2010). Educational Technology for Teaching and Learning (4th Edition). Pearson, London.

Senjam , S. S.(Ed. ) (2021). An Introduction to Assistive Technology. United Kingdom: Nova Science Publishers.

• West. T.G. (2009). In the Mind's Eye: Creative Visual Thinkers, Gifted Dyslexics, and the Rise of Visual Technologies. Prometheus Books, New York.

<https://www.readingrockets.org/topics/learning-disabilities/articles/assistive-technology-kids-learning-disabilities-overview>

<https://www.aicte-india.org/sites/default/files/AT/Assistive%20technology%20for%20learning.pdf>

<https://www.ldao.ca/introduction-to-ldsadhd/what-helps/assistive-technology/>

<https://exceptionalchildren.org/blog/sett-framework-and-evaluating-assistive-technology-remotely>

*R. S. S.*  
*S. S.*



# Psycho-Social and Family Issues

Course Code: C5 (SLD)

Credits: 02

Hours: 60

## Introduction

This course gives an overview of psychosocial domains, stages, characteristics and manifestations of psychosocial behaviours of a child with SLD at home and in community settings. It also deals with family dynamics and parenting styles that have a bearing on the upbringing of the child with SLD, and parent empowerment. It also lays stress on the importance of stress management, family counselling and social and emotional wellbeing.

## Objectives

After completing the course, the learners will be able to

- Explain the concept of psychosocial domain, and psychosocial issues in children with SLD
- Discuss the challenges experienced by the families and solutions to deal with them
- Explain the challenges experienced by adolescents with SLD
- Discuss the various approaches to interventions of psychosocial concerns
- Discuss the strategies for nurturing social emotional wellbeing of a child with SLD

## Unit 1: Overview of Psycho-social domain

- 1.1 Psychosocial domains- Meaning and components (Cognitive, Affective, Social)
- 1.2 Stages of psychosocial development (up to adolescence)
- 1.3 Psycho-social characteristics of children with SLD at different stages of psychosocial development
- 1.4 Manifestations of psychosocial behaviour of a child with SLD at home, school and society
- 1.5 Impact of attitudes of society on children with SLD

## Unit 2: Family Dynamics

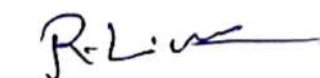
- 2.1 Family structure and its functioning
- 2.2 Parenting styles and home environment
- 2.3 Needs and concerns of child with SLD
- 2.4 Needs, concerns, role of family
- 2.5 Empowering Parents- Resource management, legal provisions

## Module 3: Adolescents with SLD

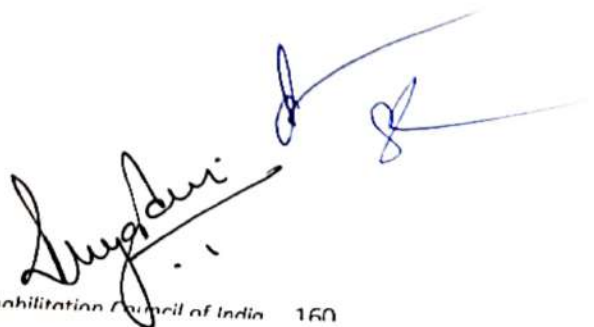
- 3.1 Physiological Changes: Implication for psychosocial development
- 3.2 Sexuality and relationships
- 3.3 Socialisation
- 3.4 Higher education
- 3.5 Career choices

## Unit 4: Intervention Approaches

- 4.1 Contemporary behavioural intervention approaches



R. Ed. Sol. Ed. (Two Years Duration)-2024-25 Rehabilitation Council of India 160



- 4.2 Cognitive behavioural approaches
- 4.3 Parent training approaches
- 4.4 Social Emotional Learning (SEL) approach
- 4.5 Schoolwide systems approach

#### **Unit 4: Strategies for Nurturing Social Emotional Wellbeing**

- 4.1 Strategies for developing positive self-concept
- 4.2 Social skill training
- 4.3 Stress management
- 4.4 Family counselling
- 4.5 Networking and liaising with students, parents, community and NGO's

#### **Transaction**

This paper should be taught through review of research papers, seminars, discussions, debates, presentations, YouTube videos and movies to understanding of the issues at hand.

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

- Observe and identify psycho-social problems of any student with SLD during school internship programme. Give detailed description along with intervention performed.
- Design a scrap book on news related to psycho-social issues among children with SLD. Analyse them and present a report with detailed write-up.
- Collect and compile articles on interventions for psychosocial issues from various sources and present them in class

#### **Recommended Readings**

- Hurlock, E. B. (2002). Developmental Psychology. Tata Mc Graw –Hill, New Delhi.
- Paley, S. (2012). Promoting positive behaviour when supporting people with a learning disability and people with autism. Los Angeles. Sage,

<https://www.ldonline.org/ld-topics/self-esteem-stress-management/understanding-childrens-hearts-and-minds-emotional>

<https://files.eric.ed.gov/fulltext/EJ1162075.pdf>

<https://www.helpguide.org/articles/autism-learning-disabilities/helping-children-with-learning-disabilities.htm>

<https://www.ldatschool.ca/learn-about-lds/social-emotional-development-lds/>

[https://greatergood.berkeley.edu/article/item/how\\_to\\_bring\\_sel\\_to\\_students\\_with\\_disabilities](https://greatergood.berkeley.edu/article/item/how_to_bring_sel_to_students_with_disabilities)

<https://www.verywellfamily.com/how-learning-disabilities-can-affect-behavior-2161916>

<https://www.ldatschool.ca/social-skills-training/>

<https://journals.sagepub.com/doi/10.2307/1593630>





# Reading and Reflecting on Texts

Course code: D1

Credits: 02

Hours: 60

## Introduction

One of the core areas that schools focus upon is age appropriate and fluent literacy skills among the students. Hence, aspirant graduates who intend to make career in special education must also be good readers and writers. This course is skill based and activity-oriented and is designed to give the learners an opportunity to enhance their reading and writing skills from a professional perspective and apply it suitably for students with disabilities.

## Objectives

After completing the course, the learners will be able to

- Discuss the role and importance of literacy in education
- Describe the difference between reading and reading comprehensions and the skills required.
- Narrate about the different types of texts.
- Discuss writing as a processes and a product
- Detail out the procedure for independent writing

## Unit 1: Reflections on Literacy

- 1.1 Role of literacy in education, career and social life
- 1.2 Literacy and self esteem
- 1.3 Literacy and first language
- 1.4 Literacy of second language & educational bilingualism
- 1.5 Braille Literacy

## Unit 2: Reflections on Reading and Comprehension

- 2.1 Reading – reading aloud, silent reading
- 2.2 Reading comprehension- learning to read and reading to learn (Chall's stages of reading)
- 2.3 Developing reading and reading comprehension from foundational to higher level; activities and strategies
- 2.4 Self regulation and Meta cognitive awareness for reading
- 2.5 Reading and reading comprehension amongst children with disabilities

## Unit 3: Responding to Texts

- 3.1 Indicators of text comprehension: retelling, paraphrasing, summarizing, answering, predicting, commenting and discussing
- 3.2 Type of texts narrative, descriptive, directing, and argumentative
- 3.3 Responding to text - reports, policy documents, news, editorial, academic articles, advertisement, resume, story books and novels
- 3.4 Web search, digital and e-books



### 3.5 Reading preferences, reading for pleasure

#### **Unit 4: Writing as a Process and Product**

4.1 Writing as a process: language, grammar, vocabulary, spelling

4.2 Content, intent, audience and organization

4.3 Process of writing - handwriting, neatness, alignment and spacing

4.4 Self editing and peer editing using COPS (capitalisation, organisation, punctuation and spellings)

4.5 Evaluating Students Writing: Conceptualisation, appropriateness, complexity, organization and literary richness and originality and creativity.

#### **Unit 5: Independent Writing**

5.1 Writing: Picture description, expansion of ideas, essays, stories, poems, original writing

5.2 Professional writing: e.g. applications, agenda, minutes, note taking and others

5.3 Converting written information into graphical representation

5.4 Filling up Surveys, Forms, Feedback Responses, Checklists

5.5 Professional writing in special education and ethics

#### **Transaction**

Lectures, journal clubs, seminars, debates and discussions for enhancing reading and writing skills

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

- Have a peer editing of independently written essays and discuss your reflections upon this experience
- Prepare a feedback form for parents and for teachers focussing on differences in the two forms due to different intent and audience
- Develop a short journal of graphical representation of 3 newspaper articles on school education using the options given in 2.4
- Visit a book store for young children; go through the available reading material including exercise books, puzzles. etc. and make a list of useful material for developing early literacy skills

#### **Recommended Readings**

- Baniel, A. (2012). Kids beyond limits. Perigee Trade, New York.
- McCormick, S. (1999). Instructing students who have literacy problems. Merrill, New Jersey.
- Ezell, H., & Justice, L. (2005). Programmatic Research on Early Literacy: Several Key Findings. IES 3rd Annual Research Conference: American Speech Language & Hearing Association.
- Gallangher. K. (2004). Deeper Reading: Comprehending Challenging Texts. Stenhouse Publishers.
- Heller, R. (1998). Communicate clearly. DK Publishing, New York.
- Luetke-Stahlman, B., & Nielsen, D. (2003). Early Literacy of Kindergartners High Beam.
- May, F. B. (1998). Reading as communication. Merrill, New Jersey.
- May, F. B. (2001). Unravelling the seven myths of reading. Allyn and Bacon, Boston.



- McGregor, T. (2007). *Comprehension Connections: Bridges to Strategic Reading*. Heinemann Educational Books.
- Miller, D. (2002). *Reading with Meaning: Teaching Comprehension in the Primary Grades*. Stenhouse Publishers, New York.
- Pandit, B., Suryawanshi, D. K., & Prakash, M. (2007). *Communicative language teaching in English*. Nityanutan Prakashan, Pune.
- Paul, P. V. (2009). *Language and Deafness*. Jones and Bartlett, Boston.
- Soundarapandian, M. (2000). *Literacy campaign in India*. Discovery Publishing House, New Delhi.
- Tovani, C., & Keene, E. O. (2000). *I Read It, but I Don't Get It: Comprehension Strategies for Adolescent Readers*. Stenhouse Publishers.

---<http://www.asercentre.org>

<https://www.landmarkoutreach.org/wp-content/uploads/Challs-Stages-of-Reading-Development.pdf>

[https://www.learner.org/wp-content/uploads/2019/06/RWD.DLU1\\_ChallsStages.pdf](https://www.learner.org/wp-content/uploads/2019/06/RWD.DLU1_ChallsStages.pdf)

R-2-111  
 Singh  
 ✓ ✓

# DRAMA AND ART IN EDUCATION

Course Code: D2

Credits: 02

Hours: 60

**Introduction:** The rich Indian field of art may be translated into our education system to give exposure to a variety of art forms, learning and appreciating it as well as using it within teaching, advocating and sensitizing. This paper is an opportunity to facilitate the art within learners and the lives they impact. The paper also aims to understand modifications and adaptations that can facilitate the participation of individuals with a disability.

Appropriate learning alternatives are to be provided to learners with disability. E.g. as required, a candidate with blindness must get alternative learning opportunities and evaluative tasks for visual art or a candidate with deafness for music art.

## Objectives

After completing the course learner will be able to

- Exhibit a basic understanding of art appreciation, art expression and art education
- Understand the diversity within artistic expression
- Apply art as 'critical pedagogy' in classrooms
- Adapt and modify activities to enhance learning and teach through art forms
- Promote inclusive art and facilitate participation at cultural and community events

## Unit 1: Introduction to Art Education

- 1.1 Art and art education: Meaning, scope and perspectives
- 1.2 Breaking the stereotypes: understanding diversity and different perspectives within artistic expression
- 1.3 Artistic expression: Creative and emotional expression and regulation
- 1.4 Power of Art: classroom and beyond (e.g. changing disability narratives, sensitization and advocacy activities)
- 1.5 Adaptations, modifications, and strategies to facilitate learning and participation in cultural and community settings

## Unit 2: Performing Arts: Dance and Music

- 2.1 Range of activities related to dance and music
- 2.2 Experiencing, responding and appreciating dance and music
- 2.3 Exposure to selective basic skills required for dance and music
- 2.4 Enhancing learning through movement, dance and music: strategies and adaptations
- 2.5 Adaptations, modifications, and strategies to facilitate participation in cultural and community settings

## Unit 3: Performing Arts: Drama

- 3.1 Range of activities related to performing arts
- 3.2 Experiencing, responding and appreciating drama
- 3.3 Exposure to selective basic skills
- 3.4 Enhancing learning through role plays and drama: strategies and adaptations
- 3.5 Adaptations, modifications, and strategies to facilitate participation in cultural and community settings

## Unit 4: Visual Arts

- 4.1 Range of activities related to visual arts
- 4.2 Experiencing, responding and appreciating visual arts
- 4.3 Exposure to selective basic skills
- 4.4 Enhancing learning through visual arts: strategies and adaptations



- 4.5 Adaptations, modifications, and strategies to facilitate participation in cultural and community settings

### **Unit 5: Media and Electronic Arts**

- 5.1 Range of art activities in media and electronic art forms  
5.2 Experiencing, responding and appreciating media and electronic arts  
5.3 Role of ICT and exposure to selective basic skills  
5.4 Enhancing learning through media and electronic art: strategies and adaptations  
5.5 Adaptations, modifications, and strategies to facilitate participation in cultural and community settings

### **Transaction**

The concepts may be explained through real-life examples and selected case studies. Learners may be encouraged to conduct hands-on observations and critically review the materials.

- Lectures and discussions
- Field visits
- Hands-on experiential demonstrations
- Workshops and seminars
- Self-study and use of online resources
- Presentations and projects

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

- Debates or performances to advocate opinions and thought processes
- Self-reflective essays on ways to include art to facilitate better teaching
- Group teaching of academic or non-academic concepts using art
- Develop and implement community sensitisation and awareness activities (e.g. Nukkad natak, art show, awareness campaigns or posters, any other events )
- Using different art forms to change the narrative of disability from “special,” or “overcoming”, to diversity, an integral part of our cultural narrative, artistic expression
- Review Indian and international disabled artists and companies in different art forms

### **Recommended Readings**

- Baniel, A. (2012). Kids beyond limits. Perigee Trade, New York.
- Beyer, L.E. (2000). The arts, popular culture and social change. Falmer Press, London.
- Botton, A.D. and Armstrong, J. (2013). Art as Therapy. Phaidon Press, London
- Efland, A. D. (1990). A history of Art Education: Intellectual and social currents in teaching the visual arts. Teachers College Press, New York.
- Finlay, V. (2014). The brilliant History of Color in Art. Getty Publications, Finlay.
- Gair, S. B. (1980). Writing the arts into individualized educational programs. Art Education, 33(8), 8–11.
- Greene, S., & Hogan, D. (2005). Researching children's experience. Sage Publication: London.
- Heller, R. (1999). Effective Leadership. DK Publishing, New York.
- Lewiecki-Wilson C., & Brueggemann, B. J. (2008). Disability and the teaching of writing: A critical sourcebook. Bedford/St. Martin's, Boston, MA.
- Nyman, L., & Jenkins, A. M. (1999). Issues and approaches to art for students with special needs (pp. 142–154). National Art Education Association, Reston, VA.
- Shirley, G. (2000). Art, an A to Z guide. Franklin Watts, New York.
- Vaze, P. (1999). How to Draw and Paint Nature. Jyosna Prakashan, Mumbai
- Ward, A. (1993). Sound and Music. Franklin Watts, New York.



Course code:

Credits: 2

Hours: 60

## Introduction:

Developing holistic and capable learners in the ever-changing educational world requires incorporating basic research and statistics. As the foundation of academic study, basic research introduces students to explore theories and methods and helps them get a deep understanding of the subjects they have chosen. Their intellectual curiosity is stimulated by this core knowledge, which also develops critical thinking abilities in youths, allowing them to evaluate data and identify gaps in their understanding.

Objectives: After completing the course the learner will be able to:

- Describe the concept, meaning and methods of research in education and special education.
- Develop an understanding of the research process and acquire competencies for conducting a research.
- Apply suitable measures for data organization and analysis.
- Able to interpret the results and present research report
- Understanding the principles of structuring and organizing research reports, including the introduction, literature review, methodology, results, discussion, and conclusion.

## Unit 1: Introduction to Research

- 1.1 Research: Concept, Meaning, and importance of research
- 1.2 Characteristics of Research
- 1.3 Purpose of research
- 1.4 Methods of Research  
Descriptive/Analytical, Applied/Fundamental, Quantitative/Qualitative, Conceptual/  
Empirical
- 1.5 Research in Education and Special Education

## Unit 2: Process of Research and Action Research

- 2.1 Process of Research
  - Selection of Problem
  - Formulation of Hypothesis
  - Collection of Data
  - Analysis of Data & Conclusion
- 2.2 Research Proposal Writing
- 2.3 Action Research in Teaching Learning process
- 2.4 Steps in Action Research
- 2.5 Professional Competencies for Action Research

## Unit 3: Fundamentals of Research

- 3.1 Research Design – concept, types and its uses
- 3.2 Tools of Research: Tests, Questionnaire, Checklist and Rating Scale



- 3.3 Standardization of Tool- Reliability and Validity
- 3.4 Sample and Sampling Techniques
- 3.5 Data Collection and Organization of data: Array, Grouped distribution, Normal Distribution Curve

#### Unit 4: Measurement and Analysis of Data

- 4.1 Scale for measurement: Nominal, Ordinal, Interval and Ratio
- 4.2 Measures of central tendency and Dispersion: Mean, Median and Mode, Standard deviation and Quartile deviation,
- 4.3 Correlation: Product Moment and Rank Order Correlation
- 4.4 Graphical representation of data – Bar Diagram, Pie Chart, Scatter diagram, line Diagram, Doughnut, Bubble, radar
- 4.5 Computer assisted statistical analysis softwares

#### Unit 5: Research Report Writing

- 5.1 Interpretation of Data
- 5.2 Report Writing
- 5.3 Publication of Research Articles
- 5.4 Ethics in Research
- 5.5 Recent trends in research in special education

#### Transaction

- Develop a teacher made test for a given subject matter
- Develop a questionnaire/checklist
- Develop an outline for conducting action research
- Student-Centric Discussion
- VAK Teaching
- Spaced Learning
- Differentiated Instruction
- Dual Coding
- Flipped Classroom
- Lecture method
- Demonstrative method
- Interrogative method
- Active method
- Experimental method
- Heuristic method

#### Course work/Practical/Field Engagement

- Assignment(s) (Group/Small Group/Individual)
- Project(s) (Group/Small Group/Individual)
- Workshops and Training Sessions
- Professional Development Opportunities in Research
- Reflective Journals and Reports

## Recommended readings

- Basic Research and Statistics Book Material, Dr. B.R.Ambedkar Open University, Hyderabad, 2020
- Bernard Ostle (2012), Statistics in Research: Basic Concepts and Techniques for Research Workers, Literary Licensing, LLC
- Best, J. W., & Kahn, J. V. (1996). Research in Education Prentice-Hall of India, New Delhi.
- C. R. Kothari (2004), Research Methodology Methods & Techniques, New Age International (P) Limited, Publishers, New Delhi
- Chaitanya Kumar (2021), Basic Research Methods and Statistics for Social Sciences Kindle Edition, Insha Publications
- Cohen, J. (1988). Statistical Power Analysis for the Behavioral Sciences. Academic Press, New York.
- Dooley, D. (1997). Social Research Methods. Prentice-Hall of India, New Delhi.
- Duncan Cramer (1996), Basic Statistics for Social Research: Step-by-Step Calculations & Computer Techniques Using Minitab
- Greene, S., & Hogan, D. (2005). Researching children's experience. Sage Publication, London.
- Grewal, P.S. (1990). Methods of Statistical Analysis. Sterling Publishers, New Delhi.
- Gupta, S. (2003). Research Methodology and Statistical Techniques. Deep & Deep Publishing, New Delhi.
- Jitendra Kumar et. al.(2022), Basic Research Methodology and Statistics, Thakur Publication Private Limited
- Koul, L. (1996). Methodology of Educational Research. Vikas Publishing House, New Delhi.
- Nancy et. al. (1999) Basic Research Methods and Statistics : An Integrated Approach: An integrated approach, S.Chand (G/L) & Company Ltd Publishers
- P.K. Mohanty & S.K. Patel (2019), Basic Statistics 2nd Edition, Scientific Publishers
- Potti, L.R. (2004). Research Methodology. Yamuna Publications, Thiruvananthapuram.
- Robert et. al. (2012) Basic Statistics for Social Research: 38 (Research Methods for the Social Sciences), Jossey-Bass Publication
- Vimal Agarwal (2022), Basic Research Methodology And Statistics, SBPD Publications
- Y.K. Singh (2006), Fundamental of Research Methodology and Statistics, New Age International (P) Limited, Publishers, New Delhi
- <https://ori.hhs.gov/module-3-elements-research>
- <https://www.iedunote.com/research-process#:~:text=The%20research%20process%20aims%20to,findings%20in%20a%20research%20report.>
- <https://southcampus.uok.edu.in/Files/Link/DownloadLink/RM%20U1%20P1.pdf>



R. L. M.





# DISABILITY AND INCLUSION

Course Code: E1

Credits: 02

Hours: 60

1. Visits organisations working in the area of disabilities (e.g. Special Schools, Therapy centres, Rehabilitation organisations, and Inclusive Schools). Write a report on one organisation of each type (special school, rehabilitation organisation, inclusive school, therapy centre) and submit for evaluation.

2. Class room observation

Disability Focus	Educational Setting	Hrs. (45)	Tasks for the learners	Description
SLD	Centres/ inclusive schools/ alternative schools for students with learning challenges	30	Observation of the students with SLD in the class, the classroom organisation, student – teacher interaction, teaching methods used by the teacher. Observations must be conducted across grades and in different subject periods.	Minimum 30 school periods. Write a report and submit.
HI, VI, CP, ASD, ID, and Multiple Disabilities	Special schools for HI, VI, CP, ASD, ID and Multiple Disabilities	10 (2 Hrs each in each disability)	Classroom Observation and Report	Minimum 15 school Periods. 3 school Periods in each Special school. Write a report and submit.
Any Disability	Inclusive School available in the neighbourhood	5	Classroom Observation and Report	Minimum 8 school Periods Write a report and submit.

Note:

- Schedule for practical for E-1 shall be included in the time table.

- Observations as mentioned are essential. However, if schools for other disabilities are not available in the nearby area, the same may be conducted as observation at Inclusive school/ education, therapy centres or services being provided in the Resource room/ Home based education or vice versa with other disability.

### DISABILITY SPECIALISATION

Course Code: E 2  
180

Credits: 06

Hours:

Content	Educational Setting	Hours	Tasks for learners
Individualised teaching (IEP)	Alternative school/ Special school/ Inclusive school	60	Assess two students with SLD/ learning challenges to diagnose their learning needs. Develop their IEPs and implement at least 20 lessons for each student. Write a report and submit.
Development of teacher made tests (TMTs)	Institute	60	Develop three TMTs - one each for assessment of process deficits and skill deficit, and one for evaluation of content (subjects). Submit the TMTs.
Administration of tests and report writing	Alternative school/ Special school/ Inclusive school	60	Administer three standardised tests to two students with SLD / learning difficulties. Write assessment reports and submit.

**Note:**

- Schedule for the practical shall be included in the timetable and required working days allocated.
- The tasks mentioned are essential and the content/hours may be adapted as per feasibility and accessibility.
- Assessment, IEP and all lesson plans must be approved by the supervisor before execution.







## Lesson Planning & Development of TLM

Course Code: E 3  
120


Credits: 04

Hours:

Sr. No.	Disability Focus	Tasks for the learners	Educational Setting	Hours	Description
1.	General/inclusive	Lesson planning and development of TLM for micro teaching	Institute	10	Plan 5 subject teaching lessons for students in general schools using different micro teaching skills. Develop appropriate TLM to teach the planned content as required by the micro skill.
2.	SLD	Lesson planning and development of TLMs	Special School/Inclusive School/ Alternative school/ Clinics	60	Plan 20 lessons for students with SLD/ learning difficulties to teach curricular skills, provide interventions for process deficits, teach co-curricular skills. The lessons must be in different areas and at different levels. Develop appropriate TLM to teach the planned content.
3.	Other disability	Lesson planning and development of TLMs	Special school	25	Plan 10 lessons for students with any disability other than SLD. The 10 lessons must be in different subject areas and for students at different levels. Develop appropriate TLM to teach the planned content.
4.	Inclusion	Lesson planning and development of TLMs	Inclusive school	25	Plan 10 lessons for students in inclusive schools using the UDL framework. The 10 lessons must be in different subject areas and for students in different grades. Develop appropriate TLM to teach the planned content.

Note:

- Each lesson must be guided by the supervisor to ensure the incorporation of appropriate pedagogy.
- Documents of all the lessons taught and the relevant TLM must be made available to the external examiner during the final practical examination.





## Execution of Lessons (Teaching Practice)

Course Code: E 4  
120

Credits: 04

Hours:

Sr. No.	Disability Focus	Tasks for the learners	Educational Setting	Hours	Description
1.	General/inclusive	Execution of micro teaching lessons	Institute	10	Execute 5 subject teaching lessons for students in general schools using different micro teaching skills using appropriate TLMS.
1.	SLD	Execution of lessons	Special School/Inclusive School/ Alternative school/ Clinics	60	Execute 20 lessons for students with SLD/ learning difficulties to teach curricular skills, provide interventions for process deficits, teach co-curricular skills using appropriate TLMs. The lessons must be in different areas and at different levels.
2	Other disability	Execution of lessons	Special school	25	Execute 10 lessons for students with any disability other than SLD using appropriate TLMs. The 10 lessons must be in different subject areas and for students at different levels.
3	Inclusion	Execution of lessons	Inclusive school	25	Execute 10 lessons for students in inclusive schools using the UDL framework. The 10 lessons must be in different subject areas and for students in different grades. Develop appropriate TLM to teach the planned content.

Note:

- Schedule for the practical shall be included in the timetable and required working days allocated.
- All lesson plans must be approved by the supervisor before execution.
- All execution must be done in the presence of a supervisor.
- Feedback must be received from the supervisor in the format prescribed by the institute.

*R. L. ...*  
*...*



**AREA F**  
**SUPPORTIVE SKILLS AND SCHOOL**  
**INTERNSHIP**  
**Specific Learning Disability (SLD)**

*R. L. S.*

*Arjun*

*[Signature]*

## Supportive Skill Training - Assistive Technology, Other Accessibility Measures

Course Code: F1  
120

Credits: 4

Hours:

All the practical work in the area E and the internship in Area F require to have the assistive technology and accessibility measures incorporated suitably. The assistive devices, or the assistive technology to be used while transacting the curricular content must be identified. Measures must be taken to fulfill the needs. Use of technology during individualised and group teaching, adoption of teaching used blended mode and simulation of teaching using the technology must be demonstrated.

In addition, the following tasks must be undertaken.

Sr. No.	Task for the learners	Hours	Description
1	AT and ICT use	30	Identify the accessibility needs of students in the given context. The learner must conduct the assessment of two students with SLD for the AT and ICT needs. Create a plan to incorporate AT and ICT for classroom teaching. Submit a report along with the illustrative low-cost devices/ aids.
2	Curriculum adaptation	90	Adapt two chapters in two different subjects at two different levels for students with SLD. Submit the curriculum adaptation along with the required aids and TLMs.

R. L. ...  
Suyabhi



## Internship in Disability Specialisation

Course Code: F2  
300

Credits: 10

Hours:

Internship involves placement of the B.Ed. Spl. Ed. learner in a special school for students with learning difficulties / clinic / centre catering to students with SLD for a period of 6 weeks. During the placement the learner is expected to work with students in all the classes ranging from primary school to secondary school. The internship should be guided by faculty supervisor.

The learner is expected to carry out the following activities and submit report endorsed by the school authority along with the certification of completion of internship.

14. Assessment of students using formal and informal tools and identify the specific learning problems ( atleast one in each level/class) and write a comprehensive report .
15. Develop an appropriate individualised educational plan (IEP) (current level, annual goals, short term objectives, methods and material and evaluation) and implement using appropriate method and material/TLM ( atleast 7 sessions for each child each session not less than 45 minutes.).
16. Collaborate with the class teachers and plan group teaching lessons for each class in at least two different areas. After getting the lessons plans approved teach in the respective classes. (At least 4 lessons /class).
17. Organise at least one parent training programme, one cultural programme, social event or sports event in school in consultation with the principal and respective class teacher.
18. Any other academic/ cultural activity in the school for which the school authorities seek the involvement of the learner.

*Rohini*

*Sujesh*

*[Signature]*

*[Signature]*

# INTERNSHIP AT INCLUSIVE SCHOOL

Course code: F 3  
120

Credits: 4

Hours:

The internship should be guided by faculty supervisor. The internship will be for 2 weeks. The learner is expected to be present in the placement premises on the working days during the internship. The learner is expected to carry out the following activities and submit report endorsed by the school authority along with the certification of completion of internship.

17. Assessment of students with special educational needs in the inclusive class using formal and informal tools and identify the specific learning problems (at least two students in different classes), consult the respective class teacher and write a comprehensive report.
18. Develop an appropriate educational programme with accommodations and modification for each of the students. Collaborate with the class teachers and plan group teaching lessons for each inclusive class where the assessed students are placed. (at least two lessons for each student to be taught in inclusive class with all other students).
19. In addition, plan and co teach/team teach with the class teacher in different inclusive classes in at least three different subjects (in each class co teach two lessons.)
20. Organise at least one parent training programme, one cultural programme, social event or sports event in school in consultation with the principal and respective class teacher with inclusion in focus.
21. Any other academic/ cultural activity in the school for which the school authorities seek the involvement of the learner.

R. ...

...

...

...



## Internship in Other Disability Special School

Course code: F 4  
180

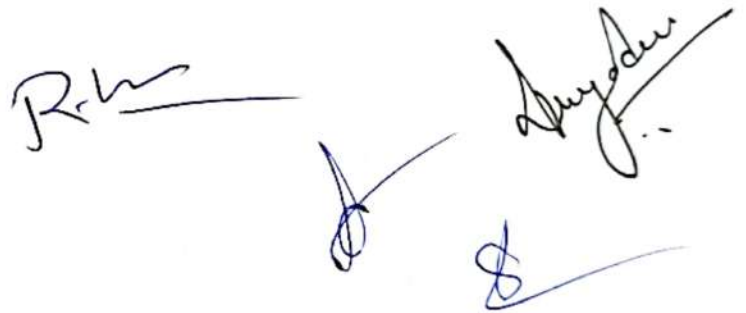
Credits:6

Hours:

The internship will be guided by the course supervisor, lasting for 3 weeks. The learner is expected to be present in the placement premises on the working days during the internship.

The learner must carry out the following during the placement period and report after getting the certificate and endorsement of the school authority.

16. Observe the classes. With the help of the class teacher assess at least 3 children with the specific disability using the appropriate tools and write a report.
17. Develop an educational plan, and with the approval of the concerned teacher execute the lessons for the children who were assessed (at least 3 lessons each).
18. Develop at least 5 lessons in suitable class levels in different subjects, get it approved by the teacher and teach the whole class group with the supervision of the class teacher.
19. Organise at least one parent training programme /one cultural programme /social event/ sports event in school in consultation with the principal and respective class teacher.
20. Any other academic/ cultural activity in the school for which the school authorities seek the involvement of the learner.



- Bhandari, R., & Narayan J. (2009). Creating learning opportunities: a step by step guide to teaching students with vision impairment and additional disabilities, including deafblindness. India: Voice and vision.
- Holbrook, M. C., & Koenig, A. J. (2000). Foundations of Education, Vol I: History and Theory of Teaching Children and Youths with Visual Impairments. AFB Press, New York.
- Hyvarinen, L., & Jacob N. (2011). What and how does this child see: assessment of visual functioning for development and learning. Vistest Ltd., Finland.
- Kumar, P. (2018). Alp Drishti Bachhe (Hindi). Delhi: S R Publisng House
- Kundu, C.L. (2000). Status of Disability in India. RCI, New Delhi.
- Leat, S.J., Shute R.H., & Westall, C.A. (1999). Assessing children's vision: A handbook. Butterworth-Heinemann, Oxford.
- Mani, M.N.G. (1992). Concept development of blind children. SRK Vidyalaya, 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, S., Mani, M.N.G., RoyChoudary, M., & Jangira, N.K. (1988). Source Book for Training Teachers of Visually Impaired. NCERT, New Delhi.
- National Institute for the Visually Handicapped (1990). Handbook for Teachers of the Blind. NIVH, Dehradun.
- NIEPVD (2020). *Effective Schools for Students with Visual Disabilities (Quality Indicators and Parameters)*. NIVH Dehradun. Retrieved online on 22/11/2023 from <https://nivh.gov.in/pdfdoc/qualityindicators.pdf>
- NIEPVD (2022). Expanded Core Curriculum (Hindi) Vistarit Mool Pathchariya. National Institute for the Empowerment of Persons with Visual Disabilities. Available at [https://nivh.gov.in/?page\\_id=7391](https://nivh.gov.in/?page_id=7391)
- NIEPVD (2023). Screening Checklist for Vision Difficulties in Students . National Institute for the Empowerment of Persons with Visual Disabilities. Available at [https://nivh.gov.in/?page\\_id=7391](https://nivh.gov.in/?page_id=7391)
- NIEPVD (2016). Visual Disability: A Resource Book for Teachers. Vo. 1. National Institute for the Empowerment of Persons with Visual Disabilities, Dehradun
- NIEPVD (2016). Visual Disability: A Resource Book for Teachers. Vo. 2. National Institute for the Empowerment of Persons with Visual Disabilities, Dehradun
- Scholl, G. T. (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). Eyssenk 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.