

MAHARAJA GANGA SINGH UNIVERSITY, BIKANER

**Bachelor of Education – Special Education
(B.Ed. Spl. Ed.)**



**Norms, Regulations & Course Content
2025**

**Effective from Academic Session 2025-2027
Semester Scheme
2025-2027**

MAHARAJA GANGA SINGH UNIVERSITY, BIKANER-RAJ.

Bachelor of Education - Special Education

B.Ed.Spl.Ed.

2025

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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 RPWD 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 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	285	15
B	Cross Disability and Inclusive Education Courses	6	12	360	300	60
C	THEORY: Disability Specialisation Courses	5	10	300	285	15
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
	Total	25	80	2400	960	1440

* 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 NCeF (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
	Total	10	300

AREA B: CROSS DISABILITY AND INCLUSION

Course Code	Course Name	Credit	Hours
B1	Introduction to Disabilities	2	60
B2	Introduction to Education of Students with Disabilities	2	60
B3	Equitable & Inclusive Education	2	60
B4	Life Skills across Life Span	2	60
B5	Supportive Skills for the Education of Children with Disabilities	2	60
B6	Skill-Based Optional Course (Anyone)	2	60
		12	720

B6: Skill-based Optional Course (ANYONE)

A	Guidance and Counselling
B	Positive Behaviour Supports
C	Early Childhood Care & Education
D	Community-Based Rehabilitation
E	Application of ICT in Classroom
F	Disability, SEDGs, and Gender

AREA C: DISABILITY SPECIALIZATION COURSES

ASD/HI/ID/MD/SLD/VI

Course Code	Course Name	Credit	Hours
C1	Identification of Disability & Assessment of Needs (Disability Specialization)	2	60
C2	Curriculum Development, Adaptation and Evaluation (Disability Specialization)	2	60
C3	Intervention & Teaching Strategies (Disability Specialization)	2	60
C4	ICT & Assistive Technology	2	60
C5	Psycho-Social and Family Issues	2	60
	Total	10	300

AREA D: ENHANCEMENT OF PROFESSIONAL CAPACITIES (EPC)

(Wherever applicable specific reference to disability shall be focused)

Course Code	Course Name	Credit	Hours
D1	Reading and Reflecting on Texts	2	60
D2	Drama and Art in Education	2	60
D3	Basic Research & Basic Statistics	2	60
	Total	6	180

AREA E: PRACTICAL RELATED TO PEDAGOGY & DISABILITY SPECIALIZATION

Course Code	Course Name	Credit#	Hours#
E1	Visits & Writing Reports (Special Schools, Therapy centres, Rehabilitation organisations, and Inclusive Schools)	16	480
E2	Classroom Observation at different levels and of different subjects		
E3	Lesson Planning & Development of TLM		
E4	Execution of Lesson (Teaching Practice)		
Total		16	480

Each disability specialization varies in requirements of practicals; hence the same has been worked out accordingly keeping the total number of credits and hours same. Details have been provided in the respective disability specialization sections of Practical I of E1 to E4.

AREA F: SUPPORTIVE SKILLS / SCHOOL INTERNSHIP

Course Code	Course Name	Credit*	Hours*
F1	Supportive Skill Training (Assistive Technologies, Functional Academic Skills, etc.)	24	720
F2	Internship in Disability Specialization		
F3	Internship at Inclusive School		
F4	Internship in Other Disability		
Total		24	720

Each disability specialization varies in requirements of Field engagements/internships; hence the same has been worked out accordingly keeping the total number of credits and hours the same. Details have been provided in the respective disability specialization sections of Practical II of F1 to F4.

AREA G – EMPLOYABILITY SKILLS

Course Code	Title	Credit	Hours
G	Employability Skills	2	60

V. ADEQUACY OF THE SPECIAL EDUCATION SYLLABI

The syllabus prescribed for the B.Ed.Spl.Ed. is on the basis of minimum requirements and therefore, Universities and Colleges of Education/Institutes implementing the B.Ed course can exercise flexibility in opting the number of papers without compromising on the adequacy and validity of the contents prescribed by the RCI.

VI. DURATION OF THE COURSE

The duration of the Course is two academic years, which can be completed in a maximum of three years from the date of admission to the programme. However, the University may exercise some flexibility as per University norms for other professional programmes.

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.

AREA A
CORE COURSES

Human Growth & Development

Course Code: A1

Credits: 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

Course work/Practical/Field Engagement

1. Observe children in early childhood education programme. Assess a child's strengths and needs across all developmental and behavioural 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

Recommended 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.

Contemporary India and Education

Course Code: A2

Credits: 02

Hours: 60

Introduction

This course will enable learners to explore education from philosophical and sociological perspectives 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 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; UNCPRD, 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 an exhibition on different Indian philosophers and their contribution

Transaction

Learners' engagement through interactive lectures, group discussion through case study and problem-based approaches as well as submission of assignments. The learning further needs to be strengthened through practicum activities, and field engagement through visits. The assessment also needs to be in a 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>
- Dimitriadis, 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/RPwDAct2016.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

- 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
- 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. Ludhiyana: 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
- MHRD(1986). National Policy on Education 1986. Ministry of Human Resource Development (now Ministry of Education), New Delhi.
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- 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.
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- 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.

AREA B
CROSS DISABILITY AND INCLUSION
COURSES

Introduction to Disabilities

Course Code: B1

Credits: 02

Hours: 60

Introduction

This course is designed to provide an overview of 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.s3waas.gov.in/s3e58aea67b01fa747687f038dfde066f6/uploads/2023/11/202311292033291428.pdf>
- https://www.nhfdc.nic.in/upload/nhfdc/Persons_Disabilities_31mar21.pdf

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 the 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 (11yrs 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 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.niepmd.tn.nic.in/publications)
- Keith Stroeve, Paul Bates, Dawn Hunter (2008). The Road Ahead Transition to Adult life for Persons with Disabilities. Training Resource Network, Inc
- Khursheed 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://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://manuu.ac.in/DDE-SelfLearnmaterial/BEDD116DST_July4.pdf
- <https://n20.ncert.org.in/pdf/publication/otherpublications/tiicsnups101.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/I/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/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.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.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>

AREA C
DISABILITY SPECIALIZATION COURSES
Visual Impairment (VI)

Identification of Children with Visual Impairment and Assessment of Needs

Course Code: C1 (VI)

Credits: 02

Duration: 60 Hrs

Introduction

We cannot treat child as 'a pair of young eyes'. We need to understand the whole child, including his feelings and needs. Having understood the psychological and sociological implications of visual impairment, the learners should be more empathetic to the needs of the visually impaired and address them appropriately in diverse educational settings. There are many eye conditions each with different educational and social implications. The infant must 'see to learn' and therefore a visually impaired infant must 'learn to see'. The course will enable the trainees to be able to identify children who are at risk for visual impairment. The trainees will be able to understand the functional vision assessment and other psychological tests which are crucial and important. The course also focuses on needs and assessment of visually impaired children with additional or associated disabilities.

Objectives

After completing the course student-teachers will be able to

- *Describe the process of seeing including structure of eye and common eye defects.*
- *Explain the etiology of visual impairment.*
- *Analyse the implications of visual impairment and identify their needs.*
- *Develop skills to identify and assess children with visual impairment.*
- *Describe the needs and develop skills to assess children with visual impairment and additional/associated disabilities (VIAD).*

Unit 1: Understanding Vision and Visual Impairment

- 1.1 Process of seeing with basic concept of Refraction, visual acuity, visual field, fusion, depth perception, etc.
- 1.2 Structure & function of eye
- 1.3 Visual perception and psychological aspects of vision
- 1.4 Concept and definitions of blindness and low vision (WHO & RPwD Act, 2016)
- 1.5 Development of vision in child (from birth)

Unit 2: Common Eye Disorders & Visual Impairment

- 2.1 Loss of Visual acuity, visual field, colour vision and contrast sensitivity
- 2.2 Different Refractive Errors
- 2.3 Vitamin-A deficiency, Cataract, Glaucoma, Corneal ulcer, trachoma and other infectious diseases
- 2.4 Strabismus, Nystagmus & Amblyopia
- 2.5 Disorders related to receptive aspects: Albinism, Retinal detachment, Retinitis pigmentosa, Retinopathy of prematurity, Cortical Visual Impairment, Optic atrophy and macular degeneration, etc.

Unit 3: Implications of Visual Impairment (Low Vision & Blindness)

- 3.1 Implications of visual impairment: Psycho-social & Educational
- 3.2 Factors affecting implications of visual impairment: Age of onset, degree of vision, type of vision loss, prognosis, and socio-economic status of the family
- 3.3 Effect of visual impairment on growth and development: Physical, Motor, Language, Socio-emotional, and Cognitive development
- 3.4 Educational needs of the students with visual impairment: personal, Educational, Social, Emotional and Vocational aspects
- 3.5 Coping strategies to overcome the implications of visual impairment (low vision & blindness).

Unit 4: Identification and Assessment of Visual Impairment

- 4.1 Identification of Visual Impairment: Role of Teachers and Screening Checklists for Teachers
- 4.2 Clinical assessment of vision – Concept, need, procedure and interpretation.
- 4.3 Functional assessment of vision: Concept, need and methods
- 4.4 Psychological Assessment for of the students with visual impairment: Different adapted tests
- 4.5 Tools of functional assessment of vision and skills Functional skills inventory for the blind (FSIB), Low Vision Assessment by Jill Keefe, Lea tests, and Portfolio assessment

Unit 5: Assessment of Needs of Children with VIAD (Visually Impaired with Associated Disabilities)

- 5.1 Definition, Concept and etiology of VIAD
- 5.2 Impact of VIAD on growth and development
- 5.3 Challenges faced by VIAD
- 5.4 Screening, and identification of Visually Impaired children with associated disabilities
- 5.5 Multidisciplinary assessment of VIAD

Suggested Course Work/ Practical/ Field Engagement

- Present a seminar on implications of visual impairment on the personality of the visually impaired
- Use checklists prepared by national level organisations (NCERT, NIEPVD or others) for identification of vision related problems
- Prepare material on early indicators of visual impairment and prevention of visual impairment
- Supervised use of tests: eg. Vithoba Paknikar Performance Test, A short Scale IQ measure for the visually impaired based on WISC-R, Adapted EPQ, Adapted Blind Learning Aptitude Test, Concept development for blind children, Reading Preference Test, Cornell Medical Index for Visually Handicapped Children.

Recommended Readings:

- Barraga, N. C. (1980). Sequences of Visual Development. University of Texas, Austin.
- Bhan, S., & Swarup, S. (2010). Functional Skills Inventory for the Blind. National Association for the Blind. Mumbai.
- Bhandari, R., & Narayan J. (2009). Creating learning opportunities: a step by step guide to teaching students with vision impairment and additional disabilities, including deafblindness. 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
- 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
- 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). Eyssenck 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.
- Punani, B., & Rawal, N. (1993). Handbook: Visual Impairment. Ashish Publishing House, New Delhi.
- Bright Hub Education. (2012). Identifying Students with Visual Impairment. Retrieved from <http://www.brighthouseeducation.com/special-ed-visual-impairments/69240-early-signs-of-visual-impairment-in-a-child/>

AREA E
PRACTICAL RELATED TO PEDAGOGY &
DISABILITY
Visual Impairment (VI)

AREA E
PRACTICAL RELATED TO PEDAGOGY &
DISABILITY

Visual Impairment (VI)

Visits & Writing Reports

Course Code: E1 (VI)

Credits: 2

Hours: 60

Brief description: Students will have a better knowledge of disability and their implications by visiting various organisations. It will give them the fundamental abilities needed for teaching and learning environment. This practical is therefore designed to provide exposure to the teaching-learning processes, various modes of learning and the infrastructural facilities.

Educational Settings: Special Schools for Children with Visual Impairment, Early Intervention Centres, Low Vision Centres, Therapy Centres, Rehabilitation Organisations.

Sl. No.	Tasks	Specific activities	Hours
1	Visits to Special Schools (Visual Impairment) & Writing Reports *At least 2 Special Schools to be visited	• Study the infrastructure, resources available in a special school, • List the best practices offered by the schools/organizations visited. • Write a report on the quality of education delivery in the special schools / organizations visited based on the feedback from the students. • Include the suggestions on what can be done to make it better. • Exposure to Sensory Kit, Functional Assessment Kit, Braille Record, Tactile Teaching Learning Material Preparation, Identification and Assessment Records, etc. are expected	30
2	Visits to Rehabilitation Centre & Special Schools (Other Disability) and writing Reports *At least 01 Therapy Centres, or, Rehabilitation Organisations, or, EIC; and 01 Model Inclusive Schools, or, Special Schools (Other Disability) need to be visited	• Study the infrastructure, resources available in a special school, • List the best practices offered by the schools/centres visited. • Write a report on the quality of services or training based on the feedback from the clients or beneficiaries. • Include suggestions on what can be done to make it better. • Exposure to Functional Assessment Kit, Records, Assessment Records, etc. are expected.	30
			60

AREA F
SUPPORTIVE SKILLS AND SCHOOL
INTERNSHIP
Visual Impairment (VI)

Supportive Skill Training

(Functional Academic Skills, Assistive Technologies and Other ECC Components)

Course Code: F1 (VI)

Credits: 6

Hours: 180

Brief description: With the use of the Expanded Core Curriculum (ECC) including functional academic skills and assistive technologies, learners can gain the fundamental abilities needed for accessible and efficient support while dealing with students with visual impairment. The goal is to equip teachers with the knowledge and skills needed to create inclusive classrooms and improve the educational experience for students with visual impairment.

Educational Settings: Special Education-Teacher Education Institute (Training Institute)

Sl. No.	Domain	Specific activities	Hours
1	Learning Functional Academic Skills	Preparing Reading Readiness Materials Reading & Writing Braille: Learning English Braille Grade 1 & 2 ; and Learning Bharti Braille (Hindi or Any one regional Language)	60
2	Assistive Technologies (Manual, Electronic & Advanced)	Teaching Manual Technologies (Abacus, Taylor Frame, Geometry Kit, etc.) Magnifiers, Non-Optical Devices, DAISY Players Advanced Assistive Technologies (RBD/ Notetakers, Screen Readers, Screen Magnifiers, Braille Translators, Embossers, Smart Cane etc.)	30
5	Sensory Efficiency	Sensory training for optimal use of remaining senses (including remaining vision)	15
6	Independent Living Skills	Personal Hygiene, eating skills/Etiquette, food preparation, time and money management, clothing care, and household tasks.	15
7	Orientation & Mobility (Learning)	Learning Orientation and Mobility skills including sighted guide techniques, protective techniques, searching techniques, cane techniques,	30
8	Other ECC Components	Hands on training on special leisure & recreational devices for CwVI, Exercises on Improving social communication skills, Self-Determination, Facilitating Career Education	30
			180

Bachelor of Education - Special Education
B.Ed.Spl.Ed.

2025

Semester - 2

Learning, Teaching and Assessment

Course Code: A3

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

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.
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- <http://teachinglearningresources.pbworks.com/w/page/19919565/Learning%20Theories>
- <https://www.ncbi.nlm.nih.gov/books/NBK562189/>

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.
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- 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.
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- 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.
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- 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.

LIFE SKILLS ACROSS LIFE SPAN

Course Code: B4

Credits: 02

Hours: 60

Introduction: Teaching life skills is essential for fostering independence, social integration, employability, and overall well-being throughout the lifespan of individuals with disability. The skills evolve over a period of time along with the individual with a disability and their environment. Keeping a life span perspective is crucial as it plays a significant role in the holistic development and independence of individuals with special needs throughout their lifespan. It empowers them to lead fulfilling lives and actively participate in their communities.

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

- Critically evaluate the necessity and relevance of appropriate life skills development
- Make individualized adaptations to teach skills across diverse learners
- Plan for transitions at various life stages
- Understand and implement strategies to promote SEL and other critical life skills in individuals with disabilities

Unit 1. Foundations of Life Skills Education

- 1.1 Introduction to life skills
- 1.2 Theoretical frameworks supporting life skills development
- 1.3 Developmentally appropriate life skills across different life stages
- 1.4 Relevance of life skills for children with disabilities
- 1.5 Ethical, inclusive and experiential practices

Unit 2. Adapting Life Skills for Diverse Learners

- 2.1 Adaptive and differentiated instruction in life skills
- 2.2 Assistive technology, AACs in teaching life skills
- 2.3 Individualized Education Plans (IEPs) for life skills
- 2.4 Addressing challenges
- 2.5 Transition planning for life after school

Unit 3. Promoting Social-Emotional Learning (SEL) and Personal Competencies

- 3.1 Understanding emotions and emotional regulation
- 3.2 Strategies for emotional regulation and self-management
- 3.3 Social awareness and empathy
- 3.4 Parent, caregiver and professional's role in supporting social and emotional learning
- 3.5 Methods for Influencing the socio-emotional Development of individuals with special Needs: insights from Current Research

Unit 4. Teaching Critical Life Skills

- 4.1. Perspective taking, critical thinking and problem-solving, executive functioning
- 4.2. Social (interpersonal skills and conflict resolution), Communication skills (Verbal, non-verbal, AACs) and Emotional Regulation (identification, expression and stress management)
- 4.3. Self-care, personal hygiene, privacy and sexuality, and independent living
- 4.4. Financial literacy and functional life skills (home, educational, training and employment setup)

4.5. Leadership and self-advocacy, community participation, rights, leisure and recreation

Unit 5. Collaborative Approaches in Life Skills Education

5.1 Interdisciplinary collaboration

5.2 Family-professional partnerships

5.3 Community engagement for life skills

5.4 Peer-mediated instruction

5.5 Real-life education through life skills: innovations and best practices in special education

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

- Develop worksheets and TLMs to teach essential life skills
- Develop and execute lesson plans to group teach selected life skills to individuals under 10 years of age essential in inclusive classrooms
- Develop and execute lesson plans to group teach selected life skills to individuals over 10 years of age essential in educational settings
- Develop and execute lesson plans to individually teach selected life skills essential in a workplace

Recommended Readings

Chung, C. K., Talreja, V., & a Dream, D. (2022). When We Thrive, Our World Thrives: Stories of Young People Growing Up With Adversity. Notion Press.

Ciarrochi, J., Forgas, J. P., & Mayer, J. D. (Eds.). (2013). *Emotional intelligence in everyday life*. Psychology press.

Elias, M. J. (2003). *Academic and social-emotional learning* (Vol. 11). Brussels, Belgium: International Academy of Education.

Espelage, D. L., Rose, C. A., & Polanin, J. R. (2016). Social-emotional learning program to promote prosocial and academic skills among middle school students with disabilities. *Remedial and Special Education*, 37(6), 323-332.

Humphrey, N., Lendrum, A., Wigelsworth, M., & Greenberg, M. T. (Eds.). (2020). *Social and emotional learning*. Routledge.

Keenan, S., King, G., Curran, C. J., & McPherson, A. (2014). Effectiveness of experiential life skills coaching for youth with a disability. *Physical & occupational therapy in pediatrics*, 34(2), 119-131.

Kennedy, F., Pearson, D., Brett-Taylor, L., & Talreja, V. (2014). The life skills assessment scale: measuring life skills of disadvantaged children in the developing world. *Social Behavior and Personality: an international journal*, 42(2), 197-209.

Life Skills Curriculum in India and research (<https://dreamadream.org/life-skills-curriculum/> & <https://dreamadream.org/financialtype/research-papers/>)

- Mannix, D. (2009). *Life skills activities for secondary students with special needs*. John Wiley & Sons.
- Pearson, D., Kennedy, F. C., Bhat, S., Talreja, V., & Newman-Taylor, K. (2021). Thriving in adversity: Do brief milieu interventions work for young adults in the developing world? A pragmatic randomized controlled trial. *Social Behavior and Personality: an international journal*, 49(9), 1-8.
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- Ramaswamy, B., Pushpa, R. S., & Gururaj, M. B. (2018). *Skill Development In India (Prabhat Prakashan): Sone ka Nevla: A Treasure Trove of Stories by Sudha Murty*. Prabhat Prakashan.
- Rani, K. N., Mohanraj, J., Indira, B., & Lakshmi, B. S. (2012). *Step by Step: Learning Language and Life Skills*. Pearson Education India.
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- <https://www.unicef.org/india/media/2571/file/Comprehensive-lifeskills-framework.pdf>
- <https://www.autismspeaks.org/life-skills-and-autism>
- <https://www.autismlevelup.com/>

Curriculum, Adaptation and Strategies for Teaching Expanded Curriculum

Course Code: C2 (VI)

Credits: 02

Hours: 60

Introduction

The curriculum is the heart of any educational system. As is the curriculum, so is the educative process. This course will provide basic understanding of the concept of curriculum approaches to curriculum development. The course content shows a strong commitment to the notion that children with visual impairment should have access to the regular core curriculum for which they need to learn an expanded core curriculum unique to visual impairment. Apart from that certain curricular adaptations and modifications are required to be done to enable the students to access visually oriented concepts. Adapted physical education and creative arts also form a part of this course of study.

Objectives

After completing the course student-teachers will be able to

- Define curriculum, its types and explain its importance.
- Demonstrate techniques of teaching functional academic skills.
- Explain importance and components of independent living skills.
- Explain curricular adaptations with reasonable accommodations.
- Illustrate how physical education and creative arts activities can be adapted for the children with visual impairment.

Unit 1: Concept and Types of Curriculum

- 1.1 Concept, Meaning and need for curriculum
- 1.2 Curricular approaches in Special Education – developmental, functional, eclectic and universal design for learning approach
- 1.3 Types of Curriculum – need based, knowledge based, activity based, skill based and hidden curriculum
- 1.4 Curriculum Planning, Implementation and Evaluation: Role of Special teachers of the visually impaired
- 1.5 Introduction to Expanded Core Curriculum (ECC) - Meaning, Need and Components

Unit 2: Teaching Functional Academics Skills

- 2.1 Areas of Functional Academics Skills: Reading, Writing, Arithmetic, Concept Development, Listening, Spatial Awareness and Organizational skills
- 2.2 Learning media assessment: Meaning, importance, techniques of teaching Braille /Print
- 2.3 Pre-requisite skills for learning Braille, Abacus, Taylor Frame
- 2.4 Devices for facilitating academic/classroom activities by children with visual impairment
- 2.5 Strategies for learning supported with Braille and /or Large Print

Unit 3: Teaching of Independent Living Skills

- 3.1 Independent living skills – Meaning, Importance, Components

- 3.2 Orientation and Mobility – need and importance, techniques of teaching mobility, sighted guide and pre-cane, cane techniques and mobility aids
- 3.3 Daily living skills – assessment of needs and techniques of teaching age appropriate daily living skills
- 3.4 Sensory efficiency – importance and procedures for training auditory, tactile, olfactory, gustatory, kinaesthetic senses and residual vision
- 3.5 Techniques of teaching social interaction skills, leisure and recreation skills and self-determination

Unit 4: Curricular Adaptation

- 4.1 Curricular adaptation – Need, Importance and Process
- 4.2 Reasonable accommodation – Concept, Need and Planning
- 4.3 Planning of lessons for teaching Expanded Core Curriculum – Individualized Education Program writing
- 4.4 Pedagogical Strategic – Cooperative learning, Peer tutoring, reflective teaching, multisensory teaching
- 4.5 Preparation of Teaching Learning Material for ECC – Reading Readiness kit, Flash Cards, Sensory Kits, and Mobility Maps

Unit 5: Curricular Activities

- 5.1 Curricular activities: Meaning and need for adaptation.
- 5.2 Adaptation of physical education activities and Yoga
- 5.3 Adaptation of Games and Sports – both Indoor and Outdoor
- 5.4 Creative Recreational and Leisure Activities (eg. Orientation to accessible video games, adaptation of traditional games)
- 5.5 Agencies/Organisations promoting – Sports, Culture and Recreation activities for the Visually Impaired in India

Course Work/ Practical/ Field Engagement

- Prepare reading readiness material for pre-school children with visual impairment
- Prepare lesson plans for teaching ECC to children with visual impairment
- Preparation and presentation of a kit to develop sensory efficiency
- Select one chapter from a secondary level text book of your choice and adapt it for learners with visual impairment /Adapt one diagram and one map from secondary classes into non-visual format
- Refer adapted sports norms and rules for persons with visual impairment prepared by various agencies (eg. Indian Blind Sports Association, Chess Federation of India, Paralympic Committee of India, Abilympics, World Blind Cricket, and others)

Recommended Readings

- Lowenfeld, B. (1971). Our blind children: Growing and learning with them. Charles C. Thomas, Springfield.
- Aggarwal, J.C. (2005). Curriculum development. Shipra Publication, New Delhi.
- Arora, V. (2005). Yoga with visually challenged. Radhakrishna Publication, New Delhi.

- Ashcroft, S. C., & Henderson, F. (1963). Programmed Instruction in Braille. Stanwick House, Pittsburgh.
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- Barraga, N. C. (1986). 'Sensory Perceptual Development'.in: G.T. Scholl (ed.) Foundations of the education for blind and visually handicapped children and youth: Theory and Practice. AFB Press, New York.
- Chapman, E. K. (1978). Visually Handicapped Children and Young People. Routledge and Kegan Paul, London.
- Cutter, J. (2006). Independent Movement and travel in Blind Children. IAP, North Carolina.
- Dickman, I.R. (1985). Making life more liveable. AFB, New York.
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- Hodapp, R. M. (1998). Developmental and disabilities: Intellectual, sensory and motor impairment. Cambridge Uni. Press, New York.
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- NIEPVD (2016). Visual Disability: A Resource Book for Teachers. Vo. 1. National Institute for the Empowerment of Persons with Visual Disabilities, Dehradun
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- Punani, B., & Rawal, N. (2000). Handbook for Visually Impaired. Blind Peoples' Association, Ahmedabad.
- Scholl, G. T. (1986). Foundations of the education for blind and visually handicapped children and youth: Theory and Practice. AFB Press, New York.
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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.
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---<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

Classroom Observation at Different Levels and of Different Subjects

Course Code: E2 (VI)

Credits: 2

Hours: 60

Brief description: In this practical, the students will do in-depth observations in special education classrooms, inclusive classrooms, or training facilities as teacher candidates. The purpose of this practical is to provide pupil teacher with experience in observing diverse teaching and learning processes, as well as using a variety of strategies and techniques to teach various subjects in varied contexts.

Sl. No.	Tasks	Specific activities	Hours
1	Classroom Observation at different levels and of different subjects	• Subject-Specific Classroom Observations at Special Schools and Inclusive Schools. • Observe various activities such as conversation, directed activity, story-telling, assessment, introduction, etc. • Write the observation report. • Include the learnings & insights, feedback, and areas of improvement in the observation report. • It is desirable that observation of classroom activities is spread across the semesters.	60
			60

AREA F
SUPPORTIVE SKILLS AND SCHOOL
INTERNSHIP

Visual Impairment (VI)

Internship in Disability Specialization

Course Code: F2 (VI)

Credits: 10

Hours: 300

Brief description: The comprehensive practical focuses on visual impairment in special education settings. This intensive programme enhances teaching abilities, supports prospective special educators in the real world, and promotes holistic growth. While working closely with experienced special education teachers, learners will be exposed to a variety of settings, including classrooms and extracurricular activities. This will provide them with a deeper understanding of the difficulties and insights into the field of special education, as well as first-hand knowledge from the children with visual disability. The internship places a strong emphasis on tailored mentoring, cultural sensitivity, diversity, and incorporating technology into instructional practices. After finishing, individuals will have an advantage in the professional field and a solid basis for future career advancement in the disability specialisation field.

Educational Settings: Special Schools for Students with Visual Impairment (Low vision and Blindness)

Sl. No.	Domain	Specific activities	Hours
1	Practicing as a Special Educator - Intern / Assistant Teacher for the CwVI	Undertaking teaching lessons at Special Schools per the assigned time-table by the organization using daily diary system for planning and recording. Maintaining Records and Reports including feedback from the stakeholders (mentors / other teachers) and reflection on how to make the teaching-learning process better.	120
7	Assessment & Remedial Support	Assist the teachers in developing teacher made tests, conducting unit tests, Exam supervision, Evaluation of answer scripts & Reporting.	30
2	Supporting Functional Academic Skills	Revision on Braille Braille Reading Drills with CwVI Braille Writing Drills with CwVI Large Print Materials Reading & Writing Drills	60
3	Accessible Learning Materials Creation	Creating Braille Books/Epub/Talking Book Creating Tactile Graphics & Maps, Preparation and Adaptation of Teaching Learning Materials (TLMs),	30

4	Orientation & Mobility (Training)	Teaching Sighted Guide Techniques & Protective Techniques, Drill on Searching Techniques, Drill on Cane Techniques, Orientation Strategies,	30
		Development of Mobility Map	
8	Cross-Curricular Activities	Conducting various activities of art, craft, drama, painting, yoga, etc. Adapted sports and physical education for students with Visual Impairment. Managing Recreational & Leisure Activities	30
			300

Bachelor of Education - Special Education
B.Ed.Spl.Ed.

2025

Semester - 3

Pedagogy of Teaching Science

Course Code: A 4 (a)

Credits: 02

Hours: 60

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

- 1.1 Aims and Objectives of Teaching Science in Elementary and Secondary School
- 1.2 Bloom's Taxonomy of Educational Objectives and Writing Objectives in Behavioural Terms
- 1.3 Lesson Planning – Importance and Basic Steps. Planning Lesson for an Explanation, Demonstration, and Numerical Problem in Teaching of Sciences
- 1.4 Unit Planning – Format of A Unit Plan
- 1.5 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. New Delhi: 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)
- NCERT (2013). Pedagogy of Science-Physical Science (Part-II). Textbook for B.Ed. New Delhi: NCERT. (available at 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)

- NCERT (2019). Pedagogy of Science. National Initiatives for School Heads' and Teachers Holistic Advancement. New Delhi:NCERT. (available at 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)
- 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)
- NCERT (2015). Including Children with Special Needs-Upper Primary. New Delhi:NCERT. (available at 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, Aryabhatta, Bhaskaracharya, Euclid, Pythagoras)
- 1.5 Perspectives on Psychology of Teaching and Learning of Mathematics- Constructivism, Enactivism, Vygotskyan 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

- 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.

- 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)
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- NCERT (2022). National Curriculum Framework for Foundational Stage. New Delhi:NCERT.
(available at www.ncert.nic.in)
- NCERT (2023). National Curriculum Framework for School Education. New Delhi:NCERT. (available at 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)

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)

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)
- NCERT (2014). Package in Social Sciences for Professional Development of In-Service Teachers. New Delhi:NCERT. (available at www.ncert.nic.in)
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- Rai, B.C. (1999). Methods of Teaching Economics. Prakashan Kendra, Lucknow.
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Depot., Meerut.

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- Stone, R. (2008). Best Practices for Teaching Social Studies: What Award-Winning Classroom Teachers Do. Corwin, CA.

हंद भाषा का िशण-शाङ्ग
(PEDAGOGY OF HINDI)

पाठ्यक्रम कोड : A5 (भाग- IV)

डिट : 02

अवध : 60 घट

परचय

यह पाठ्यक्रम शिवािव[य] को हंद भाषा और साहस्य, नदशासक योजना और मायाकन कं कि त को समझनं ँम सधम बनाएगा । यह शिवािव[य] को समावंशी कदाओ ँम भाषा शिण-अधगम कं सदधातु पर आधारत पाठ कं योजना तयार करनं एव तसं सबधत अधगम-सामदी कं नमाण करनं ँम सहायक होगा । यह पाठ्यक्रम शिवािव[य] को हंद भाषा कं गहन पहलुओ कं ववपना करनं और हंद भाषा शिण कं त्रुटकोण और वतमान नवाओ कं बारं मं जाननं का अवसर नंदन करंगा । भारतीय व अतराष्ट्रक सदभाति कं सबध मं यह पाठ्यक्रम शिवािव[य] मं ववेलषणासक और अनुसधानासक कौशल-दमता का भी विकास करंगा दय हंद भाषा शिण, अणु भाषा शिशाङ्ग, भाषा अधिहण, भाषा कं बहसक तक पहलुओ और

बहभाषावाद संसधत मुदक कं लिए भी एक आधार नंदन करंगा ।

उददेश्यः

नंदत पाठ्यक्रम द्वारा शिवािव -

- अंतरत तवा समाज कं जीवन और विकास ँम हंद भाषा कं योगदान सं परतुत हंग ।
- मलभत भाषा कौशल; और भाषा अधगम ँम तनका भामका का अनुभव करंगा ।
- इकाई नयोजन और पाठ योजना कं नदया कं कुशल हंग ।
- हंद भाषा कं ववदुत अवावहारक तददय कं नधारण और लंखन मंसधम हंग ।
- हंद भाषा कं अधगम लदय कं नारत कं लिए नयोन शिण ववधय का नयोग करंगा ।
- हंद भाषा कं तददय कं सहज नारत कं लिए सहायक तपकरण कं नमाण और तपयोग ँमदह हंग ।
- भाषा अधगम मं ववदयालय आधारत आकलन नवविध कं तपयोग कुशलतापवक करंगा ।
- भाषा अधगम ँम ववदयाव[य] कं कठनाइय कं नराकरण कं लिए दयासक अनुसधान का नयोग करंगा ।

इकाई -१ हंद भाषा कं नकिंत, नयोनता और सबधन

- हंद भाषा का नामकरण, सकेत सं हंद कं तदभव कं नदया ।
- हंद भाषा ँमद, अंजी और सकेत सं समावदुत नयय ।
- वववभाषा और भवदय भाषा कं ढप ँम हंद कं विकास का आकलन ।
- हंद साहस्य का सामाण परधय ।
- हंद गदय साहस्य कं ववधाए - कहानी नाटक और मंहाकादय, तपुयास, याङ्गा ववरण, आसकवा और सधमरण ।

इकाई २ - भाषा विअधगम का भूमिका और पाठ विनियोजन

- हिन्दी शिक्षण के लक्ष्य और उद्देश्य।
- कार्य विनियोजन का मूल्य, इसका महत्व और निमाणाविधि।
- पाठयोजना का पर्यय, उपयोग और महत्व।
- पाठयोजना के परण सरचनाएँ पागम और नका विद्यावयन।
- हिन्दी शिक्षण के ढानात्मक, बोधात्मक, कौशलात्मक और ढिपगत उद्देश्य का निधारण।

इकाई ३ - ढहोदश का विविध विधाओ के शिक्षण का विविध का परचय और उपयोग

- गदय एव पदय शिक्षण का आवेयकता और उपयोगता।
- गदय शिक्षण का अविबोध, वयाईया, विवर्ण और सयुक्त विधि का परचय और इनका समीक्षा।
- पदय शिक्षण का शब्दावि कान, खोडावय, ढयास तवा समीक्षा विधि का परचय और इनका
- उपयोगता का आकलन।
- ढयाकरण शिक्षण का आवेयकता और उपयोगता।
- ढयाकरण शिक्षण का निगमन, आगमन, भाषाससग और पाःय-पुंेतक विविध का मायाकन।

इकाई ४ - भाषा विअधगम- शिक्षण ढसहायक सामिध्य का उपयोग

- ढण उपयोग का सदभ, महत्व और लाभ।
- अविधगम-शिक्षण के येय, ढयए ढपशा उपयोग के भिकार।
- येय उपयोग - यामपुट, पाट, नरशा, मानपु, भितठप, कायशाल भितठप और यलश।
- काडए साक तिक भाषा का वीडयो तवा अनशीषक, अखबार, पाठकाओ और पुंेतक इत्याद के उपयोग का विधि और अयसा।
- ढय उपयोग - काँपुट उंेतक, ढय पुंेतक, डंजी पुंेतक, आई-पुंेतक इत्याद के उपयोग का विधि और अयसा।
- ढपशा उपयोग - वंेतक वंेतए ढयातए वंेतए आवागमनए पशुपुंेतक पंड़पुंेतक इत्याद
 - के ढपशात्मक भितठपए ढपशात्मक नरशा, ढपशात्मक मानपु, मानव शरर का ढपशात्मक।
 - भितठपए भललपी ढमपाःयपुंेतक एव अणुय ढपशात्मक शिक्षण अविधगम सहायकसामिदी।
 - इत्याद के ठप ढमयोग का विधि और उपयोगता।

- वदयुद्दिवक उपकरण; - टंकवजन, कंायटर, डीजीटल प्रेतक, ई.सामेीए सॉफ्ट.वे. यरस, मोबाइल एापस और ववेवजाल कं सहायक तकनीक व उपकरण कं ठप माअयोग कं ववध और उपयोगता।
- भाषा अधगम अमभाषा उपयोगशाला; भौतक व आभाषीदध कं उपयोग कं ववध और समीदः।

इकाई ५ - भाषा िअधगम क आकलन व मूयाकन कं मविवध

- आकलन व मूयाकन कं सकापना, गददंय और महसव, आकलन मवधया अमलपीलापन ।
- आकलन कं ववधमून मकार तवा उपकरण ववदयालय आधारत आकलन का सदम।
- लंखन, पठन, तुलंख, सुलंख, तीलंखन, हुटमूतलंखन, आशुभाषण, कंयपाठ, गीत, अभिनय, सवाद, वधकलाप और नंतुवकं गुण कं मववध दवरा मूयाकन तवा उनकं कं भाषा अधगम कासपीवृ बनाना
- हुटय कं पहचान व ववलंषण नदानक परकण और उपपारांमक उपाय दय
- वदंयाग वदयावय कं लए आकलन मवधया माअनुकूलन और उनकं सवान्गीण विकास का अवरपोट तयार करना।

पाठ्यधम क सचालन

इस पाठ्यधम कं सचालन अम वदक वशधण-अधगम कं गातवधया, पारधपरक पपा। और वयावयान, साहंय-समीदः, मंदशान और अवलोकन, ववधमून अधगम अक 5, जसं - भाषा उपयोगशालाओ, अस्मि उपयोगशालाओ, ककल और कदाओ इंयावद अम वशधवय कं साधय भागीदारः शामिल होगी। इसकं

अंतरगत वदक भाषा कं बहुसाधक, तिक पहल और बहुलता को समझानं हतुं, ववधमून पारवंश अम अकादमिकमण; पारयोजनाए और ई-सामेी और वडवजटल वशधण सामेी कं तयारक, वरवज कायशालाओ और सगोवठय, मंदशानय और मवतयोगताओ मा भागीदारः कं अवसर मंदान कए

जाणं ।

पाठ्यधम कायशानायोगिक कायध अधगम अकद पर काय -

- आधुनिक भाषा कं ठप अमवहदक कं गुण और वधत का अनुसधान ववरणा
- वहदक वशधण कं कवहक दो अधनुतन ववधय का पारपय एव इनकं उपयोग कं तुलनांमक समीदः।
- वहदक वशधण कं वण, वापन और लंखन अधगम कं सटक मूयाकन अमवदयालय आधारत आकलन कं मववध कं उपयोग का ववरणा
- पठन दनवदनी, पोटाफोलयो और आलोचनांमक ववरणी कं उपयोग कं समीदः औरइनकं मवतकृत का मवतकृतकरण।

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- मगल, 7मा (२००9) हणुदक शशदण, आय[बुकडपो करोल बाग, नई दललक
- पाठेडं य, रामशकल (२००9) हणुदक शशदण, वनोद पुस्तक मणुदर
- शुरुल, रामपुद (२००६) हणुदक साहस्य का इतहास, राजकमल भकाशन, नई दललक
- लाल, रमन बहारा (२००२) हणुदक शशदण, रहतोगी भकाशन, मंरठ
- सलह, साववुी (२००४) हणुदक शशदण, इण्टरनशनल पफपलशग हास, मंरठ
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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

- 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-cut-outs, 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.
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- 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.
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- Sachdeva, M. S. (2007). Teaching of English. Patiala: Twenty First Century Publications.
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- Sharma, P. (2011). Teaching of English: Skill and Methods. Shipra Publication, Delhi.

AREA B

CROSS DISABILITY AND INCLUSION COURSES

Supportive Skills for the 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
- 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
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- Dr. Sr. Alice Mathew. Learning Disabilities and Remediation, Neelkamal Publications, Hyd
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- Gordon-Gould, P. & Hornby, G. (2023). Inclusive education at the crossroads: Exploring special needs provision in global contexts. Routledge.
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- Hamblin, T. & Bose, S. (2003). Play, IICP, Kolkata
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- 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
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- 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.
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Web based reading

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- https://ies.ed.gov/ncee/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://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://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
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- <https://divyangjan.depwd.gov.in/islrct/>

Intervention and Teaching Strategies

Course Code: C3 (VI)

Credits: 04

Hours: 60

Introduction

This course builds on the pedagogy courses presented under A4 and A5 of the present B.Ed. curriculum. It prepares the student-teachers to transact lessons in various school-subjects for children with visual impairment. For this purpose, the required intervention and teaching techniques and skills are highlighted.

The student-teachers, it is hoped, will find the course highly stimulating, as it will enable them to help blind and low vision students to cope effectively with the challenges of curriculum transaction, at par with their sighted peers.

Objectives

After completing the course student-teachers will be able to

- Explain various theoretical perspectives related to intervention & teaching strategies.
- Demonstrate techniques of teaching Mathematics to visually impaired children.
- Acquire necessary competencies and skills for teaching science and assessment of the learners with special reference to children with visual impairment.
- Acquire and apply necessary skills for adapting TLM in social science and assessment of the learners with special reference to children with visual impairment.
- Describe the process of assessment visual efficiency and classroom management for children with low vision.

Unit 1: Theoretical Perspectives

- 1.1 Understanding Teaching Methods, Approaches, Strategies & Tactics
- 1.2 Intervention – Concept, Scope and Importance
- 1.3 Intervention for lately blinded students – Role of Special teachers/educators
- 1.4 Mediated teaching-learning – Concept, Need and Procedure
- 1.5 Enriched teaching for Concept development: Converting visual concepts into accessible experiences

Unit 2: Mathematics

- 2.1 Coping with Mathematics phobias
- 2.2 Conceptualization of Mathematical ideas – Processes and Challenges for Children with Visual Impairment
- 2.3 Preparation and Use of tactile materials
- 2.4 Mental arithmetic abilities – Concept, Importance and Application
- 2.5 Evaluation procedures with special reference to the Needs of Children with Visual Impairment

Unit 3: Science

- 3.1 Providing first-hand experience in the class and the school environment

- 3.2 Inclusive/collaborative learning for laboratory work
- 3.3 Science Teaching Learning Materials and Equipment: i) Preparation and use of TLM, ii) Locating and procuring Science equipment
- 3.4 Problem solving and Learning by doing approach for Visually Impaired students
- 3.5 Evaluation procedure with particular reference to Practicals and Adaptations in Examination questions

Unit 4: Social Science

- 4.1 Techniques of preparation and presentation of adapted Tactile maps, Diagrams, and Globe
- 4.2 Procuring, adapting and use of different types of models
- 4.3 Organizing field trips
- 4.4 Teaching Skills: Dramatization, Narration, Explanation, Story-telling, and Role play
- 4.5 Evaluation of concepts and skills in social science with particular reference to Geography

Unit 5: Teaching of Children with Low Vision

- 5.1 Selection of an appropriate medium of reading and writing
- 5.2 Techniques and procedures for developing reading and writing skills
- 5.3 Orientation and Mobility for low vision children
- 5.4 Creating Stimulating Learning Environment for Low Vision; Strategies for engagement
- 5.5 Classroom Management – Seating arrangement, adjustable furniture, illumination, non-reflecting surfaces and colour contrast

Course Work / Practical / Field Engagement

- Prepare and use two teaching learning materials for teaching Maths/ Science/ Social Science.
- Prepare a short concept paper (about 500 words) on developing a science laboratory for the visually impaired students.
- Functionally assess the vision of a low vision child and plan a teaching programme.

Recommended readings:

- Agrawal, S. (2004). Teaching Mathematics to Blind Students through Programmed Learning Strategies. Abhijeet Publication, Delhi.
- Bourgeault, S. E. (1969). The Method of Teaching the Blind : The Language Arts. American Foundation for the Overseas Blind ,Kuala Lumpur.
- Chapman, E. K. (1978). Visually Handicapped Children and Young People. Routledge, London.
- Fernandez, G., Koenig. C., Mani. M.N.G., & Tensi. S. (1999). See with the Blind. Books for Change, Bangalore.
- Hodapp, R. M. (1998). Developmental Disabilities: Intellectual, Sensory and Motor Impairment. Cambridge University Press, New York.
- Jose, R. (1983). Understanding Low Vision. American Foundation For The Blind. New York.

- Kelley, P., & Gale, G. (1998). Towards Excellence: Effective Education for Students with Vision Impairments. North Rocks Press, Sydney.
- Kumar, P. (2018). Alp Drishti Bachhe (Hindi). Delhi: S R Publising House
- Lowenfeld, B. (1973). The Visually Handicapped Child in School. John Day Company, New York.
- Lydon, W. T., & McGraw, M. L. (1973). Concept Development for Visually Handicapped Children. AFB, New York.
- Mangal, S. K. (2011) Educating Exceptional Children: An Introduction to Special Education. PHI Learning Pvt. Ltd., New Delhi.
- Mangold, S. S. (1981). A teachers' Guide to the Special Education needs of Blind and Visually handicapped Children. New York: AFB
- Mani, M. N. G. (1992). Techniques of Teaching Blind Children. Sterling Publishers Pvt. Ltd. New Delhi.
- Mani. M. N. G. (1997). Amazing Abacus. S.R.K. Vidyalaya Colony, Coimbatore.
- Mason, H., & McCall, S. (2003). Visual Impairment – Access to Education for Children and Young people. London: David Fulton Publishers.
- Mukhopadhyay, S., Mani, M.N.G., Roy Choudary, M., & Jangira, N.K. (1988). Source Book for Training Teachers of Visually Impaired. New Delhi: NCERT.
- Niemann, S., & Jacob, N. (2009). Helping Children who are Blind. The Hesperian Foundation, California.
- 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
- 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
- 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
- Punani, B., & Rawal, N.(2000). Handbook for Visually Impaired. Blind Peoples' Association, Ahmedabad.
- Scholl, G.T. (1986). Foundations of the education for blind and visually handicapped children and youth: Theory and Practice. AFB Press, New York.
- Vijayan, P., & Gnaumi, V. (2010). Education of children with low vision. Kanishka Publication, New Delhi.

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.

AREA E
PRACTICAL RELATED TO PEDAGOGY &
DISABILITY

Visual Impairment (VI)

Lesson Planning & Development of TLM

Course Code: E3 (VI)

Credits: 6

Hours: 180

Brief description: For educators, planning is vital that support a better understanding of students and the transfer of information, competencies, and abilities. It supports the direction of communication, organisation, assessment, and content distribution. Teachers may guarantee relevance, match activities to objectives, and engage students with easily accessible content by careful planning. This specific practical component focuses on teaching students how to prepare teaching materials and arrange lessons effectively under the supervision of mentors.

Sl. No.	Domain	Specific activities	Hours
1	Lesson Planning and Unit Planning Practice	• Lesson Plan Preparation Pedagogy I – II • Planning for the creation of a learning environment.	60
2	Hands-On Training for TLM Creation and Use of Open Resources	• Create tangible teaching aids, such as flashcards, tactile materials, or manipulative, • Digital TLM creation, developing multimedia resources, visual schedules, social stories, or communication boards; • Development of Teaching Learning Material (TLM) based on principles of Universal Design of Learning (UDL). • Searching and Using OERs	60
3	Content Reading of School Textbooks and Adaptation of Content	• Content reading of school textbooks of all grades and reflecting on the same. • Preparing adaptations by selecting various topics related to different subjects (Language, Maths, Social Science, Science).	30
4	IEP & Assessment	• Preparing Individualized Education Plan (IEP). • CCE strategies for CwVI (using Braille and other methods) • Integrate assessment of needs and planning for facilitating learning.	30
			180

AREA F
SUPPORTIVE SKILLS AND SCHOOL
INTERNSHIP

Visual Impairment (VI)

Internship at Inclusive School

Course Code: F3 (VI)

Credits: 4

Hours: 120

Brief description: Participating in an internship programme in an inclusive school setting is the specific emphasis of this practical course. It also focuses on the hands-on experience in undertaking responsibility by assisting the special educators or mainstream teachers in inclusive schools/settings.

Educational Settings: Inclusive Education Setting / Inclusive School

Sl. No.	Domain	Specific activities	Hours
1	Planning	Studying the background of the children in the allotted class and reading and reporting on Academic Calendars, Time Table, Diaries, Work-Books, Progress Reports, Case files, Parent Meeting Records, Different Formats and Assessment	15
2	Role of Teacher Assistant/ Team Teaching	Assisting Teachers at Inclusive Schools in Classroom Teaching (should also include 5 hours of training in Basics Braille for other students)	30
3	Review on Barrier-Free Environment	Studying the extent of a barrier-free environment available at the inclusive school in consultation with the school Principal/Teacher	30
4	Assessments & Remedial Support	Assist the teachers in developing teacher-made tests, conducting unit tests, Marking schemes, Exam supervision, Evaluation of answer scripts and reporting.	15
5	Undertaking Cross-Curricular Activities	Conducting various activities of art, craft, drama, painting, yoga, adapted sports and physical education, celebrations of festivals, etc.	30
			120

Bachelor of Education - Special Education
B.Ed.Spl.Ed.

2025

Semester 4

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://egyankosh.ac.in/bitstream/123456789/46291/1/BESE-132B4E.pdf>
- https://www.niepid.nic.in/Protocol_Psy.pdf
- <https://www.mheducation.co.in/counselling-and-guidance-9781259005077-india>

Technology and Education of the Visually Impaired

Course Code: C4 (VI)

Credits: 02

Hours: 60

Introduction

Technology in the form of adaptive and assistive devices and various applications / software, play a crucial role in the education of the visually impaired. This course brings into sharp focus the need and importance of such technologies both for the practicing teachers and the visually impaired learners. While highlighting the significance of addressing the user's point of view/feedback and involving mainstream professionals in developing required technologies, the course also dwells upon how best students with visual impairment get access to the printed text/material. The course also acquaints the student-teachers with various devices and applications for making the teaching learning process for important school subjects and other readings more meaningful, exciting and rewarding for all concerned. The educational needs of children with low vision and related technological perspectives are addressed, too, along with critical contributions of computer-aided learning and interventions. In short, the course focuses on making transaction of curriculum for blind and low vision students, a really enjoyable and worthwhile experience.

Objectives:

On completion of this course, the trainee shall:

- Explain the concept and nature of educational technology and ICT to the education of
- children with visual impairment.
- Acquire knowledge of the concept and nature of adaptive technology and explain
- underlying principles and techniques.
- Get familiar with technologies for print-access for children with visual impairment.
- Describe and use different technologies for teaching low vision children as also
- various school subjects.
- Get acquainted with conversion of print material into accessible formats.
- Demonstrate understanding of computer-based teaching-learning processes

Unit 1: Introducing Educational and Information Communication Technology

1.1 Educational Technology & Assistive Technologies - Concept, Importance, and Scope

1.2 Information and Communication Technology (ICT) - Concept and Scope for teaching-learning of the visually impaired

1.3 Special Significance and Goals of Technology for the Education of children with Visual Impairment

1.4 ICT and International Convention & Guidelines for Persons with Disabilities or, Visual Impairment

1.5 ICT and Indian Legal Framework including RPWD Act (2016) and National Education Policy (2020)

Unit 2: Assistive Technologies

2.1 Categories of Assistive Technologies: User or Task Oriented



- 2.2 Basic Considerations for Selection of Assistive Technologies (eg. Access, Affordability, Portability, Compatibility, and Availability)
- 2.3 Addressing User's Perspectives in Developing Adaptive Technologies (eg. Ease of use, adaptability to Indian conditions, parent and peer counselling)
- 2.4 Roles of Universities, Technical Institutes and the Scientific Community in conjunction with organizations working for and with visually impaired;
- 2.5 Universal/Inclusive Design - Concept, Advantages, and Limitations.

Unit 3: Access to Print for the Visually Impaired

- 3.1 Screen Readers, OCR software, Stand-alone Reading Machines and its applications (eg. Envision AI, KIBO, Smart speakers) with Special Reference to Indian Languages
- 3.2 Refreshable Braille displays and Braille Translation Software with Particular reference to Indian Languages including DBT and Open-Source Braille Translators such as Braille Blaster by APH, Braille Embossers.
- 3.3 Magnifying Software, Smart Phone Accessibility and Open-Source Software
- 3.4 Taking Books, Daisy Books, E-Pub: Access, Use & Development; Conversion from text to braille, text to speech, e-pub to Braille, etc. (including apps such as voice dream reader, voice dream writer, voice dream scanner, google lens, google look-out)
- 3.5 Use of artificial intelligence (e.g. Chat GPT, Microsoft Bing, Google Bard): Benefits & Challenges.

Unit 4: Assistive Technologies for the Visually Impaired with Reference to School

Subjects and Low Vision

- 4.1 Assistive Technologies for Facilitating Mathematics Learning (Manual e.g. Measuring tape, Taylor Frame, & ICT based eg. MathCat, MathType, special softwares)
- 4.2 Assistive Technologies for Learning Science Concepts (eg. Thermometers, Colour Probes, Scientific and Maths Talking Calculators, Light Probes, and Weighing scales and Softwares like Lab Quest)
- 4.3 Social Science (eg. Tactile/Embossed Maps, Charts, Diagrams, Models of Different Types, Auditory Maps, Talking compass etc.)
- 4.4 Low vision devices: Optical, Non-Optical and Projective
- 4.5 Production of Accessible Learning Materials (eg. Braille, Large-Print Materials, Tactile Diagrams- Thermofoam/Swell Paper, E-pub): Concept, Methods and Schemes.

Unit 5: Accessible Virtual Learning & Social Media

- 5.1 Social Media; Creation of Blogs and Vlogs
- 5.2 Practices & Guidelines for creating accessible learning materials or Social Media contents.
- 5.3 Distance Learning and ICT including Video-Conferencing, virtual meetings
- 5.4 Open Educational Resources (OERs) and Online Libraries including Accessible Libraries for Students with Visual Disabilities
- 5.5 e-Classroom: Concept and Adaptations for Children with Visual Impairment

Practicum and Course Related Activities (as per the need of the course):

- a. Assignment(s) (Group/Small Group/Individual)

Minimum three of the following

- Prepare a list of devices for Mathematics and Science available for the visually impaired in one special school and one inclusive school
- Write a short list of hints and suggestions you will offer to the scientific community for motivating them to develop adaptive technologies for the visually impaired
- Make a short report (in about 500 words) on the advantages and limitations as well as sources of availability in respect of any print-access technology and applications indicated in Unit 3 above.
- Make a case study of a student with low vision at the secondary stage, indicating clearly his educational needs and how you can address them
- Prepare a report on the possibilities and prospects available for the visually impaired students through the use of computers.
- Make a comparison between Taylor's frame and Abacus with their Pros and cons in 500 words.
- Prepare a short note (in about 400 words) on various aspects of a virtual classroom and how it could be made accessible to the visually impaired
- Visit Report after visit to the available nearest resource center of assistive technologies for visually impaired students.
- Hands on Training of Screen Reader, OCR soft-wares, conversion of print into accessible learning materials.

Recommended readings:

- Biwas, P. C. (2004). Education of children with Visual Impairment: in inclusive
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- Mani, M.N.G. (1997). *Amazing Abacus*. S.R.K. Vidyalaya Colony, Coimbatore.
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- Mukhopadhyay, S., Mani, M.N.G., Roy Choudary, M., & Jangira, N.K. (1988). *Source Book for Training Teachers of Visually Impaired*. NCERT, New Delhi.
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- 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
- 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
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- Punani, B., & Rawal, N. (2000). *Handbook for Visually Impaired. Blind Peoples'*
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- Taraporevala & D'sylva (2014). *Equip your world: A Synoptic view of access technologies for the visually challenged*. Published by NIVH
- Vijayan, P., & Gnaumi, V. (2010). Education of Children with low Vision. Kanishka
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PSYCHO-SOCIAL AND FAMILY ISSUES

Course Code: C5 (VI)

Credits: 02

Hours: 60

Introduction

Children with Visual Impairment belong to families. It is important to explore family backgrounds and their influence on how visually impaired are perceived and how children perceive themselves, and how they behave in consequence. The learners need to develop an insight into the plethora of emotions the family goes through at the birth of a special child, the challenges they face throughout the life of the visually impaired, and the roles and responsibilities of the family and the community.

Objectives

After completing the course student-teachers will be able to

- Describe the effect of birth of a child with visual impairment on the family.
- Analyze the role of family and parental concerns related to their child with visual impairment from birth to adulthood.
- Explain the role of parent community partnership in the rehabilitation of a person with visual impairment.
- Develop different skills to empower families in meeting the challenges of having a child with visual impairment.

Unit 1: Family of a Child with Visual Impairment

- 1.1 Birth of a child with visual impairment and its effect on parents and family dynamics
- 1.2 Parenting styles: Overprotective, Authoritative, Authoritarian and Neglecting
- 1.3 Stereotypic attitudes related to visual impairment and attitude modification
- 1.4 Role of family in Early stimulation, Concept development and Early intervention
- 1.5 Role of siblings and extended family

Unit 2: Parental Issues and Concerns

- 2.1 Choosing an educational setting
- 2.2 Gender and disability
- 2.3 Transition to Secondary level education (Adolescence)
- 2.4 Transition to adulthood: sexuality, marriage, and employment
- 2.5 Parent support groups

Unit 3: Rehabilitation of Children with Visual Impairment

- 3.1 Concept of habilitation and rehabilitation
- 3.2 Community Based Rehabilitation (CBR) and Community Participatory Rehabilitation (CPR)
- 3.3 Legal provisions, concessions and advocacy
- 3.4 Vocational rehabilitation: need and challenges
- 3.5 Issues and challenges in rural settings

Unit 4: Meeting the Challenges of Children with Visual Impairment

- 4.1 Enhancing prosocial behaviour, Gestures & Postures
- 4.2 Stress and coping strategies
- 4.3 Recreation and leisure time management
- 4.4 Challenges of adventitious visual impairment
- 4.5 Soft skills and social skills training

Unit 5: Involvement in Educational Aspects

- 5.1 Role of Parents in School Development / SMC
- 5.2 Parents involvement in academic activities; IEP and Involvement of Parents
- 5.3 Understanding IFSP; Developing IFSP
- 5.4 Involvement of Parents in IFSP
- 5.4 Attitude of professionals in involving parents in IEP and IFSP

Course Work/ Practical/ Field Engagement (Any Two)

- Interview family members of three children with visual impairment (congenital/ adventitious and blind, low vision and VIMD) and analyze their reactions and attitude towards the child
- Prepare and present a list of activities how parents, siblings, and grandparents can be engaged with the child with visual impairment
- Prepare charts/ conduct street plays/ make oral presentations to remove myths related to visual impairment
- Visit schools for the visually impaired and make presentations before the parents on Government concessions and auxiliary services available

Recommended Readings

- Bhandari, R., & Narayan, J. (2009). Creating learning opportunities: a step by step guide to teaching students with vision impairment and additional disabilities, including deafblindness. Voice and vision, India.
- Hansen, J. C., Rossberg, R.H., & Cramer, S.H. (1994). Counselling Theory and Process. Allyn and Bacon, Boston.
- Lowenfeld, B. (1969). Blind children learn to read. Springfield: Charles C. Thomas.
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- Shah, A. (2008). Basics in guidance and Counselling. Global Vision Publishing House, New Delhi.
- Smith, D. D., & Luckasson, R. (1995). Introduction to Special Education – Teaching in an age of Challenge. (2Ed). Allyn & Bacon. USA.

Basic Research and Basic Statistics

Course code: D3

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.
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- Greene, S., & Hogan, D. (2005). Researching children's experience. Sage Publication, London.
- Grewal, P.S. (1990). Methods of Statistical Analysis. Sterling Publishers, New Delhi.
- Guptha, S. (2003). Research Methodology and Statistical Techniques. Deep & Deep Publishing, New Delhi.
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- Koul, L. (1996). Methodology of Educational Research. Vikas Publishing House, New Delhi.
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- P.K. Mohanty & S.K. Patel (2019), Basic Statistics 2nd Edition, Scientific Publishers
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- 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>
- <https://statisticsbyjim.com/basics/descriptive-inferential-statistics/>
- <https://makemeanalyst.com/basic-statistics-for-data-analysis/>
- <https://www.scribbr.com/methodology/research-ethics/>

Execution of Lesson (Teaching Practice)

Course Code: E4 (VI)

Credits: 6

Hours: 180

Brief description: Under the guidance and assistance of more experienced educators, student teachers can improve their art and science of teaching through teaching practice. This specific teaching practice exercise offers special educators a chance to comprehend the function and workings of the educational system. Gaining professional competence and working with students in real classrooms is a tough but rewarding experience that this field experience offers.

Sl. No.	Domain	Specific activities	Hours
1	Micro Teaching Sessions	Micro Teaching Practice Peer Observation and Feedback Collaborative and Group Teaching	30
2	Teaching Practice (Pedagogy I)	Undertaking Teaching Practice (Pedagogy I)	60
3	Teaching Practice (Pedagogy II)	Undertaking Teaching Practice (Pedagogy II)	60
4	Assessment and Progress Monitoring	Assessment and Progress Monitoring Home-Assignment Engagement	30
			180

Internship in Other Disability

Course Code: F4 (VI)

Credits: 4

Hours: 120

Brief description: This practical mostly focuses on participating in an internship programme in a field other than the learners' selected disability specialization area (i.e. Visual Disability). Additionally, by helping special education teachers at the special schools for different disabilities, it is expected that trainee teachers will enrich the practical experience.

Educational Settings: Special Schools of Other Disability

Sl. No.	Domain	Specific activities	Hours
1	Planning	Studying the background of the children in the allotted class and reading and reporting on Academic Calendars, Time Table, Diaries, Work-Books, Progress Reports, Case files, Parent Meeting Records, Different Formats and Assessment	15
2	Role of Teacher Assistant/ Team Teaching	Assisting Teachers at Special Schools in Classroom Teaching	30
3	Additional Skills (Other Disabilities)	Acquiring the basics of additional skills required for supporting children with other disabilities. Eg. ISL, Behavior Modification Training, etc. Preparing TLM; etc.	30
4	Assessments	Assist the teachers in developing Teacher-made tests, conducting unit tests, Exam supervision, Evaluation of answer scripts and reporting, and applying adaptations.	15

5	Undertaking Cross-Curricular Activities	Conducting various activities of art, craft, drama, painting, yoga, special or adapted sports and physical education, celebrations of festivals, etc.	30
			120

AREA G – EMPLOYABILITY SKILLS

Course Code	Title	Credit	Hours
G	EMPLOYABILITY SKILLS	2	60

The resources are freely downloadable at www.employabilityskills.net. This module will enable and empower the trainees with readiness skills for applying, preparing for interviews and developing soft skills for working as professionals in supporting diverse clients across different setups.