

HOLY CROSS COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002
PG AND RESEARCH DEPARTMENT OF REHABILITATION SCIENCE
CHOICE BASED CREDIT SYSTEM

MASTER IN REHABILITATION SCIENCE

2022-2024

(For Candidates Admitted from 2022 onwards)

M.Sc. REHABILITATION SCIENCE - COURSE PATTERN

Course	Title of the Course	Code	Hrs/wk	Credits	Marks
SEMESTER I					
Major Core-1	Methods of Rehabilitation Social Work	P22RS1MCT01	6	4	100
Major Core-2	Therapeutics for Persons with Disabilities (Practical)	P22RS1MCP02	5	4	100
Major Core-3	Management of Cerebral Palsy	P22RS1MCT03	5	5	100
Major Core-4	Vision Rehabilitation (Theory cum Practical)	P22RS1MCP04	6	5	100
Major Core-5	Research Methodology	P22RS1MCT05	6	5	100
	Value Education		1	-	-
	Library hour		1	-	-
Extra Credit	INTERNSHIP	P22EX1INT01	15days 75 hours	2	100
	TOTAL		30	23+2	600

SEMESTER II					
Major Core-6	Rehabilitation of Persons with Locomotor Disabilities	P22RS2MCT06	5	5	100
Major Core-7	Assessment Procedures	P22RS2MCT07	4	4	100
Major Core-8	Administration of Rehabilitation Programmes	P22RS2MCT08	5	4	100
Major Core-9	Management of Persons with Multiple Disabilities	P22RS2MCT09	5	4	100
Major Core-10	Intervention for Learning Disabilities	P22RS2MCT10	4	4	100
Non-Major Elective -1	Home Management	P22RS2NMT01	5	3	100
	Value Education		1	-	-
Extra credit course	Any online /Swayam course	P22EX2ONC01	-	1	100
Extra Credit	INTERNSHIP	P22EX2INT02	15days 75 hours	2	100
	Library hour		1	-	-
	TOTAL		30	24+3	800

SEMESTER III					
Major Core-11	Autism and ADHD	P22RS3MCT11	6	6	100
Major Core-12	Intellectual disability – Multidisciplinary Aspects (Practical)	P22RS3MCP12	6	5	100
Major Core-13	Hearing Impairment – Multidisciplinary Aspects (Practical)	P22RS3MCP13	6	5	100
Major Core-14	Project Management	P22RS3MCT14	6	5	100
Non-Major Elective -2	Family and Child Care	P22RS3NMT02	5	3	100
Self – Study Course	Abnormal Psychology	P22RS3SST01		2	100
Extra credit course	Any online /Swayam course	P22EX3ONC02	-	1	100
Extra Credit	INTERNSHIP	P22EX3INT03	15days 75 hours	2	100
	Library hour		1	-	-
	TOTAL		30	25+3	900

SEMESTER IV					
Major Elective-1	Internship I - Deaf Blindness/ Multiple Disabilities	P22RS4MEI01 P22RS4MEI02	8	5	100
Major Elective-2	Internship II - Sensory Disabilities / Developmental Disabilities	P22RS4MEI03 P22RS4MEI04	8	5	100
Major Elective-3	Internship III - Management of Rehabilitation Programmes / Services for the Disabled	P22RS4MEI05 P22RS4MEI06	8	5	100
Extra Credit	INTERNSHIP	P22EX4INT04	15days 75 hours	2	100
	Dissertation	P22RS4DIS01	6	5	100
	TOTAL		30	20+2	400
	GRAND TOTAL (I-IV Semesters)		120	92+10	2700

COURSES OFFERED TO OTHER DEPARTMENTS

Sem	Course	Title of the Course	Code	Hrs/Week	Credits	Marks
I	Major Core	Research Methodology	P21RS1MCT01	6	5	100
II	Major Elective-1	Rehabilitation Psychology	P21RS2MET01	4	4	100
II	Non-Major Elective -1	Home Management	P22RS2NMT01	5	3	100
III	Non-Major Elective -2	Family and Child Care	P22RS3NMT02	5	3	100

**PG AND RESEARCH DEPARTMENT OF REHABILITATION SCIENCE
P.G FIRST YEAR - SEMESTER – I**

Course Title	Major Core -1 Methods of Rehabilitation Social Work
Total Hours	90
Hours/Week	6 Hrs/ Wk
Code	P22RS1MCT01
Course Type	Theory
Credits	4
Marks	100

GENERAL OBJECTIVE:

To enable the students, understand the basics of Rehabilitation Social Work and its relationship with various methods in Rehabilitation programmes of disabled and become effective human resource managers.

Course Objectives:

CO No.	Course Objectives
CO-1	Remembers, Understands about the basics of Rehabilitation Social Work
CO-2	Remembers, understands the Professional function, ethics and values of Rehabilitation Social Worker
CO-3	Understands and analyze the Rehabilitation Case Work and its characteristic.
CO-4	Understands and analyze the Rehabilitation Group Work and its characteristic
CO-5	Understands and analyze the importance of community organization and social action for persons with disabilities.

UNIT 1: Introduction to Rehabilitation Social Work

(12 HOURS)

- 1.1 Meaning and definition of Social work
- 1.2 Changing concepts in Social Work
- 1.3 Basic values and Principles of Social Work
- 1.4 Methods of Rehabilitation Social Work
- 1.5 Modern Society and Rehabilitation Social Work

Extra reading/ keywords: Social Work, Social action, Social Welfare Administration, Social work research

UNIT 2: Professional functions and Characteristics of Rehabilitation Social Worker (12 Hours)

- 2.1 Competencies related to performance of professional Functions
- 2.2 Code of ethics in rehabilitation social work
- 2.3 Importance of field work and Supervision in Rehabilitation Social Work
- 2.4 Tools and Techniques of Rehabilitation social work
- 2.5 Rehabilitation Social Work as a Profession

Extra reading/ keywords: Competencies, skills, code of ethics, field work, supervision,

Verbal interaction, Professional Traits

UNIT 3: Rehabilitation Case Work (18 HOURS)

- 3.1 Definition, purpose, case work relationship
- 3.2 Phases of Social Case work practice
- 3.3 Interviewing and Case Recording
- 3.4 Application of rehabilitation Case Work in different settings & Clientele groups
- 3.5 Rehabilitation Case Work Practice and Indigenization in India

Extra reading/ keywords: Case Worker, Social investigation, Social diagnosis, Social Treatment, interviewing, case recording

UNIT 4: Rehabilitation Group Work (18HOURS)

- 4.1 Characteristic, Goals and Function of Group work
- 4.2 Group work Process and Principles
- 4.3 Models of Group Work and Stages of Group Development
- 4.4 Group work evaluation & reporting
- 4.5 Application of rehabilitation Group Work in different settings & Clientele Groups

Extra reading/ keywords: Brainstorming, Role play, team work, team building, trust Building, reporting, Evaluation

UNIT 5: Community Organization and Social Action (15 HOURS)

- 5.1 Meaning, Definitions, objectives and Nature of Community organization
- 5.2 Principles, Skills and Techniques of Community Organization
- 5.3 Community Organization and Community development
- 5.4 Concept of Social Action-Definition, Objectives and Elements of Social Action
- 5.5 Principles, Models, Strategies and Role of Rehabilitation Social Worker in Social Action.

Extra reading/ keywords: community organization, networking, Empowerment

PRACTICUM: (15 HOURS)

- 1. Organizing awareness programmes/workshops/seminars related to disability.
- 2. Availing welfare schemes - Identity card, Concessions, Material Aid, etc. for the disabled persons.
- 3. Preparation of minutes of meetings and reports of the organizations.
- 4. Writing and maintaining field work reports.
- 5. Capacity building for rehabilitation professionals

Note: Texts given in the extra reading/key words must be tested only through Assignment and Seminars.

Course Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
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CO-1	Explain the definition, principles and methods of Rehabilitation Social Work	PSO 1	R, U
CO-2	Describe and relate the Professional function, competencies of Rehabilitation Social Worker.	PSO 2	R
CO-3	Relate and apply the Rehabilitation Case Work and its application in different settings.	PSO2&PSO3	AP
CO-4	Relate and apply the Rehabilitation Group Work and its application in different situations.	PSO2&PSO	AP
CO-5	Examine the importance of community organization	PSO 5	AN
CO-6	Evaluate the perspective of Networking of persons with disabilities.	PSO 5	E

PO – Programme Outcomes; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create

REFERENCES:

- Sanjay Bhattacharya, (2003). Social Work An integrated Approach, Deep & Deep Publication, New Delhi
- Upadhyay, R.K. (2003), Social Case Work; A Therapeutic Approach, Jaipur: Rawat Publications.
- Gautam Banerjee, (2001). Legal Rights of the Disabled in India, New Delhi; RCI.
- Kundu C.L, (2000). Status of Disability in India, New Delhi, RCI. Kohli, A.S., and Sharma, S.R., (1996). Enchlopaedia of Social
- Martin, Davies (2000), The Blackwell Encyclopedia of Social Work , Blackwell Publishers, Oxford, U.K.
- Welfare Administration, New Delhi; Anmol Publications Pvt. Ltd.
- Misra .P.D., (1994). Social Work: Philosophy and Methods, New Delhi; Inter-India publications.
- Bharti, I.J., (1990). Darkness into light, New Delhi; D.K. Publishers (P) Ltd.
- Dayal, Parameshwari (1986), Gandhian Approach to Social Work , Gujarat Vidyapith, Ahmedabad.
- Siddiqui, H.Y. (1984), Social Work and Social Action (ed.), Harnam Publications.
- T. Krishnan, Nair (1983), Social Welfare Manpower, A study in Tamilnadu , Concept Publishing company, New Delhi
- Eruc Ryckmans, (1983). Working with Disabled people, London; Batsford Academic and Educational Ltd.
- Ann Brechin & Penny Liddiard, (1981). Look at it This way: New Perspectives in Rehabilitation, U.K.; The Open University Press.
- Keith Davis, (1981). Rehabilitation Administration and supervision, Maryyord; University park press.
- Dr. D. Paul, Chowdhry (1981), A Handbook of social welfare , Atma Ram & Sons Delhi.
- George Nelson Wright, (1980). Total Rehabilitation, Boston; Little Brown and Company (Inc.).
- Robert M. Goldenson, (1978). Disability and Rehabilitation Handbook, New York; MC Graw-Hill Book Company.

Course Title	Major Core – 11: THERAPEUTICS FOR PERSONS WITH DISABILITIES
Total Hours	90
Hours/Week	6 Hrs Wk
Code	P22RS1MCP02
Course Type	Practicals
Credits	5
Marks	100

GENERAL OBJECTIVE:

To understand the concepts and techniques in Physiotherapy, Speech and Language therapy, Behaviour modification Occupational Therapy, Counselling and alternative therapies

Course Objectives:

CO No.	Course Objectives
CO-1	Understand Physiotherapy and Speech Language therapy with it techniques
CO-2	Understand occupational therapy with its relevant treatment techniques
CO-3	Apply behavior modification plan for different disabilities.
CO-4	Apply various alternative therapies in different relevant contexts and refer suitable assistive technology for PWD
CO-5	Apply different counseling therapies to people with disabilities.

UNIT 1: PHYSIOTHERAPY AND SPEECH AND LANGUAGE THERAPY (18 hrs)

- 1.1 Physiotherapy, basic exercises and postural correction – Organizing workshop
- 1.2 Gait training, coordination and balance– Case observation and implementation
- 1.3 Detailed Case profile / Home Based intervention plan
- 1.4 Identification speech and language disorders - Case observation and Reporting
- 1.5 Preparing Alternative & augmentative communication aids

Extra reading/ keywords: Physiotherapy for Cerebral Palsy, muscular dystrophy, polio, spinal

cord injury, Splint, calipers, PECS, Stuttering, speech disorders.

UNIT 2: OCCUPATIONAL THERAPY (18 hrs)

- 2.1 Occupational therapy, its Modalities and significance for PWD - Organizing workshop
- 2.2 Detailed case profile / Home based intervention plan
- 2.3 Hand functions– types of grasps, grip, development, and eye-hand coordination
- 2.4 Preparation of Sensory integration kit
- 2.5 Integrating occupational therapy into classroom context. – Developing Plan

Extra reading/ keywords: Occupational therapy for hand function, hand writing problems, learning disabilities, functional reeducation, sensory integration for hyper and hyposensitivity, activities.

UNIT 3: BEHAVIOUR MODIFICATION (18 hrs)

- 3.1 Aim, scope and importance of behaviour modification
- 3.2 Types of behaviour– adaptive and maladaptive
- 3.3 Identification of problem behaviours, and functional analysis
- 3.4 Strategies for behaviour modification and differential reinforcement
- 3.5 Integrating behaviour modification in classroom context – Developing Behavior intervention Plan

Extra reading/ keywords: Adaptive behaviour, maladaptive behaviour, odd behaviour, token economy, reinforcement, behaviour contract, Functional Behaviour assessment and behaviour therapy

UNIT 4: ALTERNATIVE THERAPIES & ASSISTIVE Technology (18 hrs)

- 4.1 Neuro developmental therapy
- 4.2 Play therapy, hydrotherapy, Dance & laughing therapy
- 4.3 Yoga, Music & art therapy
- 4.4 Prosthetics and Orthotics
- 4.5 Assistive technology and New innovation for PWD – Album Preparation on Social Stories, E -Safety measure and Assistive Technology

Extra reading/ keywords: Neurodevelopmental therapy for developmental disabilities, Montessori teaching method, different types of yoga, techniques in music and art therapy, role of alternative therapies in skill development.

UNIT 5: COUNSELLING (18 hrs)

- 5.1 Counselling: concept, importance and scope
- 5.2 Principles, ethics and basic skills in counseling
- 5.3 Assessment and identification of the needs
- 5.4 Therapies in counseling: behavioural, cognitive, cognitive-behavioural, play therapy, art-based therapies, bibliotherapy
- 5.5 Working with Individual and Families

Extra reading/ keywords: Counselling, effective communication techniques, behavioural assessment, different types of mental illness, Psychoanalytical therapy, gestalt therapy,

observational learning.

Course Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Explains the concept of Physiotherapy and speech therapy with its therapeutic application.	PSO 1	R, U
CO-2	Describes occupational therapy with its relevant treatment techniques and various assistive technology for PWD	PSO 2	R, U
CO-3	Develops behavior modification plan for different disabilities.	PSO 3	U, Ap
CO-4	Executes various alternative therapies in different relevant contexts	PSO 4	U, Ap
CO-5	Applies different counseling therapies to people with disabilities.	PSO 5	U, Ap

PO – Programme Outcomes; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create

REFERENCES:

1. Feltham, C. (2010). Critical Thinking in Counselling and Psychotherapy. Sage, London.
2. Feltham, C., & Horton, I. (2012). The Sage Handbook of Counselling and Psychotherapy. Sage, London.
3. Hatcher, C. (2011). Making Collaborative Practice Work: A Model for Teachers and SLTs. J & R Press, Guilford.
4. Hocking, C. (2004). Making a difference: The romance of occupational therapy. South African Journal of Occupational Therapy, 34(2), 3-5.
5. Creek, J. (2008). The Core Concepts of Occupational Therapy: A Dynamic Framework for Practice. Churchill Livingstone, Edinburgh.
6. Duncan, E.A.S. (2005). Foundations for Practice in Occupational Therapy (4th edition). Churchill Livingstone, Edinburgh.
7. Anderson, C., & Van Der, G. A. (2005). Speech and Language Therapy: Issues in professional practice. Whurr, London.
8. Antony, M.M., & Roemer, E. (2003). Behavior therapy. In A.S. Gurman & S.B. Messer (Eds.), Essential psychotherapies (2nd ed., pp. 182-223). Guilford, New York.
9. Christiansen, C., Baum, C., & Bass-Haugen, J. (2005). Occupational therapy: performance, participation and well-being. SLACK Inc., New Jersey.
10. Clark, D. M., & Fairburn, C.G. (1997). Science and Practice of Cognitive Behaviour Therapy. Oxford University Press. New York.
11. Colman, W. (1992). Maintaining autonomy: The struggle between occupational therapy and physical medicine. American Journal of Occupational Therapy, 46, 63-70.
12. Creek, J. (2001). Occupational Therapy in Mental Health (3rd edition). Churchill Livingstone, Edinburgh.
13. Gardiner, M.D. (1985). The principles of exercise therapy. Delhi: CBS Publishers & <http://www.pbs.org/parents/education/learning-disabilities/strategies-for-learning-disabilities/assistive-technology-devices/>

13. Jacobs, K (1990). Occupational therapy: Work related programs and assessment,

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PG AND RESEARCH DEPARTMENT OF REHABILITATION SCIENCE
(For Candidates Admitted from 2022 onwards)

Course Title	Major Core 3: MANAGEMENT OF PERSONS WITH CEREBRAL PALSY
Total Hours	75
Hours/Week	5 Hrs. Wk.
Code	P22RS1MCT03
Course Type	Theory
Credits	5
Marks	100
Learning Objective	To understand the history, etiology, prevention, incidence, classifications and types of cerebral palsy, describe the varied related problems and intervention procedures for the cerebral palsied.
Cognitive Levels	K1: Remember K2: Understand K3: Apply K4: Analyze

Course Objectives:

The learner will be able to

CO No.	Course Objectives
CO-1	Memorize the causes, classification, types, related incidence and medical intervention methods in cerebral palsied (K1)
CO-2	Describe the varied assessment, management techniques and therapeutic approaches for the cerebral palsied (K2)
CO-3	Demonstrate the methods of developing independence in self-care activities and mobility for the cerebral palsied. (K3)
CO-4	Apply the physiotherapy aids, assistive appliances and modern technological devices for the cerebral palsied. (K3)
CO-5	Analyze the critic reviews related to researches done on the intervention and management of cerebral palsied with recent journals. (K4)

UNIT 1 : AN INTRODUCTION TO CEREBRAL PALSY

(12 HOURS)

1.1 History and definition of Cerebral Palsy

- 1.2 Incidence and Classification of Cerebral Palsy
- 1.3
- 1.4 Etiology and prevention
- 1.5 Diagnostic methods – surgical and medical interventions

Extra read *rhizotomy, dystocia, tetraplegia, tremors, flaccidity Chromosomal aberration, metabolic anomalies, neoplasms, arthrodesis*

UNIT 2: RELATED PROBLEMS (13 HOURS)

- 2.1 Speech and hearing problems
- 2.2 Vision and other sensory disturbances
- 2.3 Perceptual disturbances
- 2.4 Orthopedic problems and convulsion disorders
- 2.5 Psychological problems

Extra reading/ keywords: *erythroblastosis foetalis, kernicterus, retrolental fibroplasia, exotropia, hemianopsia, amblyopia, nystagmus, convulsions,*

UNIT 3: ASSESSMENT AND MANAGEMENT TECHNIQUES (10 HOURS)

- 3.1 Assessment (Subjective and Objective)
- 3.2 Tran disciplinary / interdisciplinary and multi-disciplinary approach to management of children with CP
- 3.3 Early intervention, Sensory stimulation and sensory integration
- 3.4 Therapies for cerebral palsied
- 3.5 Parent Training and Family Involvement

Extra reading/ keywords: *MDT, Sensory integration, bob bath therapy, NDT, Voyta therapy, ATNR, Primitive reflexes, hippotherapy.*

UNIT 4: DEVELOPING INDEPENDENCE IN SELF CARE ACTIVITIES AND MOBILITY (15 HOURS)

- 4.1 Toilet training
- 4.2 Dressing
- 4.3 Feeding
- 4.4 Functional academics
- 4.5 Mobility

Extra reading/ keywords: *privacy, drooling, tongue thrust, bowel bladder control*

UNIT 5: PHYSIO AIDS AND ASSISTIVE TECHNOLOGY (10 HOURS)

- 5.1 Importance
- 5.2 Factors to be considered while making aids

- 5.3 Aids for skill enhancement and functional academics
- 5.4 Aids for mobility
- 5.5 Adaptive devices and Assistive Technology

Extra reading/ keywords: *physio aid, adapted aid, assistive device, augmentative communication, bliss symbols, PECS*

Course Outcomes:

The learner will be able to

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Memorize the causes, classification, types, related problems incidence and medical intervention methods in cerebral palsied (K1)	PSO 1	K1
CO-2	Describe the varied assessment, management techniques and therapeutic approaches for the cerebral palsied (K2)	PSO 2	K2
CO-3	Demonstrate the methods of developing independence in self-care activities and mobility for the cerebral palsied. (K3)	PSO 3	K3
CO-4	Apply the physio aids, appliances and assistive technology devices for the cerebral palsied. (K3)	PSO 4	K3
CO-5	Analyze the critic reviews related to researches done on the intervention and management of cerebral palsied with recent journals. (K4)	PSO 5	K4

PRACTICUM: (15 HOURS)

1. A case study of any one classification of C.P.
2. Evidence related profile of the related problems in CP.
3. Prepare and Interpret model aids.

TEXT BOOKS

1. Jan Stephen Tecklin, (2008), Pediatric Physical therapy, (4th ed.), Lippincott Williams & Wilkins
2. Sophie Levitt, (2004), Treatment of Cerebral palsy and motor delay, (4th ed.), Blackwell Publishing
3. Bardbara H. conolly, Patricia C. Montgomery, (2005), Therapeutic exercise in developmental disabilities, (3rd ed.), Slack Incorporated.
4. Jennifer A. Pryor, Barbara A Webber, (2001), Physiotherapy for

- Respiratory and Cardiac problem, (2nd ed.), Churchill Livingstone.
5. Alfred L. Scherzer. (2001), Early diagnosis and interventional therapy in cerebral palsy, (3rd ed.), Marcel Dekker.
 6. Roberta B. Shepherd. (2013) Cerebral Palsy in Infancy (1st edition), Elsevier Health Sciences.
 7. Jan Stephen Tecklin (2008) Pediatric Physical Therapy (4th edition) Lippincot Williams & Wikins, Philadelphia
 8. Teresa Pountney, Teresa E. Pountney (2007) Physiotherapy for Children (1st edition), Butterworth Heinneman, Elsevier
 9. Janet M. Howle (2007) Neuro-developmental Treatment Approach: Theoretical Foundations and Principles of Clinical Practice, (3rd edition), Neuro developmental treatment Association

EXTRA READING:

1. Lindsay. Neurology & Neurosurgery Illustrated 3rd ed.4. DeLisa, Joel A. Physical Medicine & Rehabilitation: Principles and Practice, 4th ed. Lippincott Williams & Wilkins.

JOURNALS

- > Indian Pediatrics Journal.
- > Indian Journal of Cerebral Palsy
- > The cerebral palsy Journal.
- > Iranian journal of pediatrics
- > Sri Lanka journal of child health

WEBSITES:

1. www.cerebralpalsy.org
2. www.info.com/CerebralPalsy
3. www.cpdailyliving.com
4. www.bobath.org
5. www.caringforcerebralpalsy.com

HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI -620 002
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I M.R.Sc : SEMESTER –I
(For Candidates Admitted from 2022 onwards)

Course Title	Major Core 4 – VISION REHABILITATION
Total Hours	90
Hours/Week	6 Hrs/Wk
Code	P22RS1MCP04
Course Type	Theory cum Practicum
Credits	5
Marks	100

Course Objectives:

The learner will be able to

CO No.	Course Objectives
1	Understand the concept of low vision.
2	Assess functional vision for persons with low vision.
3	Identify low vision aids for persons with visual impairment.
4	Apply strategies for vision training programmes.
5	Analyse vision intervention and rehabilitation strategies.

UNIT 1: Low Vision

(18 Hrs)

- 1.1 Visual Impairment
- 1.2 Normal Visual Development and Primary Eye Care
- 1.3 Psychosocial factors relating to Vision Loss
- 1.4 Introduction to Low Vision, Detecting Eye Problems
- 1.5 Elements of Low Vision and Simulation of Low Vision

Extra reading/ keywords: Best corrected visual acuity, Charles Bonnet syndrome

UNIT 2: Assessment and Evaluation of Low Vision

(18 Hrs)

- 2.1 Vision Screening
- 2.2 Clinical assessment of Low Vision
- 2.3 Functional Vision Assessment
- 2.4 Assessment of multiply handicapped
- 2.5 Visual assessment scales and Low Vision Kit

Extra reading/ keywords: LogMAR chart, Simulation of low vision

UNIT 3: Optics and Low Vision Devices (18 Hrs)

- 3.1 Optics
- 3.2 Low Vision Devices - Optical Devices and Non-optical Devices
- 3.3 Guidelines to use of Low Vision Devices
- 3.4 Electronic devices
- 3.5 Softwares for persons with low vision

Extra reading/ keywords: Biooptics, NVDA

UNIT 4: Training of visual skills (18 Hrs)

- 4.1 Developing a visual training programme based on functional assessment
- 4.2 Skills for Distance training and Near training
- 4.3 Training programmes for people with restricted fields
- 4.4 Choice of reading/writing medium
- 4.5 Instructional Approaches in the use of Low Vision

Extra reading/ keywords: Perceptual Visual Skills, Sports Vision Skills

UNIT 5: Low Vision Intervention and rehabilitation (18 Hrs)

- 5.1 Modified visual environment for various conditions
- 5.2 Low Vision and Mobility
- 5.3 Role of Low Vision Service Specialists
- 5.4 Current Modalities for Low Vision Rehabilitation – Microperimetry, Retinal prosthesis, Retina Implant Alpha-IMS, BrainPort, Stem cells,
- 5.5 Platelet-rich plasma (PRP) therapy, Transcorneal Electrical Stimulation (TES), Transcranial Electromagnetic Stimulation (TMS) and Gene therapy

Extra reading/ keywords: Reading Media Assessment, Sensory areas

Note: Extra Reading / Keywords are only for Internal Testing (Seminar / Assignments)

PRACTICUM:

1. Case study of low vision children.
2. Preparation and use of low vision kit
3. Plan, execute and present a report on Functional assessment of vision of at least two low vision children
4. Lesson Plan for Visual stimulus training for two low vision children
5. Lesson Plan for use of low vision devices for two low vision children
6. Preparing tactile/auditory route maps for low vision children.
7. Indoor and outdoor travel with use of residual vision

Course Outcomes: The learner will be able to

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Recognise and detect eye problems	PSO 1	K1

CO-2	Categorise and recommend low vision devices for persons with visual impairment.	PSO 2	K2
CO-3	Organise and implement vision assessment and vision training programmes.	PSO 4	K3
CO-4	Develop vision training programmes for people with low vision	PSO 5	K4
CO-5	Evaluate and recommend vision rehabilitation strategies.	PSO 5	K5
CO-6	Modify visual environment for various low vision conditions.	PSO 3	K6

REFERENCES :

1. Barraga, N (1985). Proceedings of Low Vision Workshop. Tiruchirapalli; Holy Cross College.
2. Barraga, N. (1964). Increased Visual Behaviour in Low Vision Children. New York; American Foundation for the Blind.
3. Bishop V.E., (1971). Teaching the Visually Handicapped. Charles C. Thomas.
4. Corn, A.L. & Koenig, A.J. (2000). Foundations of Low Vision: Clinical and functional
5. D'Andrea, F.M.& Farrenkopf, (2000). Looking to learn: Promoting literacy for students with low vision. New York, AFB Press.
6. Das, R.C. (1992). Educational Technology: A Basic Text New Delhi Sterling
7. Erin, J., (2004). When You Have a Visually Impaired Student with Multiple Disabilities in Your Classroom: A Guide for Teachers. New York, AFB Press.
8. Fonda. G. (1970). Management of the Patient with Subnormal Vision (2nd Ed.), St. Louis; The C.V. Mosby Company.
9. Jose R.T. (1983). Understanding Low vision, New York; American Foundation for the Blind. Ministry of Education. (1988). Visual Skills. A Curriculum Guide, Victoria; Ministry of Education.
10. Joyce, B. & Others (1992) Models of Teaching New York: Holt, Rinehart & Winston.
11. Juice, B. & Weil, M. (2003). Models of Teaching, 5th Ed. Prentice Hall India Pvt. Ltd.
12. Kishore, Nand (2003). Educational Technology. Abhishek Publications.
13. Low Vision Training Manual. Christoffel Blindenmission, Germany.
14. Mehra, Vandana (1995). Educational Technology. S.S. Publishers: Delhi.

15. Mukhopadhyaya, M.(Ed.) Educational Technology year Book from 1988. perspectives. New York: AFB.
16. Rao, U. (2001). Educational technology, 4th Revised Ed. Himalaya Publishing House.
17. Rao. V. (1991) Educational Technology. Delhi: Himalayan Publishing House
18. Sampath, K., Panneer, A. Seivam, & Santhanam, S. Introduction to Educational Technology. 3rd Ed. Sterling Publishers Pvt. Ltd.
19. Sharma, R.A. (1983) Technology of Teaching Meerut, International.
20. Sompath, K. Etal (1990) Educational Technology. New Delhi: Sterling.
21. Vanaja, M. (2003). Educational Technology. Neelkamal Publishers.
22. All About Disability – A Resource Guide, 2017 JAMI Publications ISBN: 978-81-933361-5-1
23. <https://www.perkins.org/>
24. <https://www.afb.org/blindness-and-low-vision>
25. <https://www.who.int/news-room/fact-sheets/detail/blindness-and-visual-impairment>
26. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8396411>

Course Title	Major Core – 5: RESEARCH METHODOLOGY
Total Hours	90
Hours/Week	6 Hrs Wk
Code	P22RS1MCT05
Course Type	Theory
Credits	5
Marks	100

GENERAL OBJECTIVE:

To understand the concept of Research, its types, designs, identifying research problem, data collection and interpretation and application of statistical procedures for data analysis and research publications.

Course Objectives:

CO No.	Course Objectives
CO-1	Remember the concept of research, its types and characteristics
CO-2	Understand the various process in research and its internal concepts.
CO-3	Understand the types of research design, sampling and writing thesis, IPR etc.
CO-4	Apply different methods of data collection, process, analysis and interpretation.
CO-5	Analyze and apply the different format of research writing, paper publication etc.

UNIT 1: Introduction to Research Methodology (13 hrs)

- 1.1 Meaning and definitions of research
- 1.2 Objectives and characteristics of research
- 1.3 Criteria of good research, Ethics in Research
- 1.4 Research in special education – problems encountered
- 1.5 Types of Research - primary and secondary, application, objective, enquiry mode

Extra reading/ keywords: Research, educational research, empirical research, social research, historical research, post facto research, scientific research.

UNIT 2: Formulating a Research Problem, Objectives and Hypotheses (18 hrs)

- 2.1 The research process – steps involved
- 2.2 Identification of the research problem
- 2.3 Formulation of research questions: aims, objectives, statement of problem, hypothesis
- 2.4 Review of literature – importance, functions characteristic, and procedure,
- 2.5 Variables – Independent, dependent, control and extraneous variables, converting a concept into a variable

Extra reading/ keywords: Levels of Research Project, Components of Research Problem, skimming, problem formulation, Null hypotheses, Test hypotheses.

UNIT 3: Research Design (13 hrs)

- 3.1 Research design – definition/meaning, need/function,
- 3.2 Types of research design - based on number of contacts, reference, Period, nature of investigation
- 3.3 Sampling – meaning, characteristics, methods and determinants of sample size.
- 3.4 Concept of Reliability and Validity
- 3.5 Data collection : Research Tools and its standarization, Type of data, methods of data collection, Pilot Study, Processing data – steps in quantitative and qualitative data

Extra reading/ keywords: Exploratory & Formulative studies, Diagnostic studies, Experimental Design, Principles of Sampling, Probability & Non Probability sampling, sampling error

UNIT 4: Analyzing, Interpreting and Presenting data (13 hrs)

- 4.1 Data Analysis – Process, choosing statistics for different research designs.
- 4.2 Parametric and Non-Parametric Tests
- 4.3 Computer Data Analysis – SPSS, Microsoft Excel etc.
- 4.4 Displaying data – table components, types of graphs, charts
- 4.5 Research summary - definition, process of writing abstract

Extra reading/ keywords: Coding , labeling, compiling data, pilot study, plagiarism, different types of research formats.

UNIT 5: Report Writing, Publishing and IPR (18 hrs)

- 5.1 Research Report – layout, mechanics, organization, precautions
- 5.2 Documentation of research: scientific report writing, different formats or styles (APA, AMA and MLA)
- 5.3 Writing Bibliography in different formats
- 5.4 Article Writing and Paper Publication
- 5.5 Basic Concepts related to IPR

Extra reading/ keywords: Scopus Indexed, ESCI, WOS Journals etc. H – Index etc.

Course Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Explains the concept of research, its types and characteristics.	PSO 1	R, U
CO-2	Discuss the various types' research design and its relevance to research in special education.	PSO 2	U, An
CO-3	Enumerates the process of carrying out research, sampling	PSO 3	U

	and writing thesis		
CO-4	Compares different types of variables, methods of collecting, processing, analyzing and interpreting data	PSO 4	U, An
CO-5	Applies research knowledge in article publication and deals with issues related to IPR	PSO 5	U, Ap

PO – Programme Outcomes; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create

PRACTICUM:

(15 hrs)

1. Developing a Research Plan.
2. Writing an outline for a Research Proposal
3. To prepare the master sheet, coding the data
4. Analyzing data
5. Writing bibliography

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<https://library.sacredheart.edu/c.php?g=29803&p=185902>

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Note: Learners are advised to use latest edition of books.

I M.R.Sc – SEMESTER II

Course Title	Major Core 6: REHABILITATION OF PERSONS WITH LOCOMOTOR DISABILITIES
Total Hours	75
Hours/Week	5 Hrs Wk
Code	P22RS2MCT06
Course Type	THEORY
Credits	5
Marks	100

GENERAL OBJECTIVE:

To enable the students to assess and develop intervention plan and rehabilitation therapy for the locomotor disabled.

Course Objectives:

The learner will be able to

CO No.	Course Objectives
CO-1	Understand and analyze the bones, joints & muscles involved in movement.
CO-2	Discuss and evaluate the orthosis and prosthesis used for PWLD
CO-3	Assess and develop intervention plan and rehabilitation therapy for orthopaedic problems.
CO-4	Assess and develop intervention plan and rehabilitation therapy for neurological problems, Diseases of Joints and congenital Deformities
CO-5	Assess, evaluate, prescribe mobility aids and rehabilitate persons with locomotor disabilities

UNIT1: Introduction and Components of Locomotor Disabled.

- 1.1 Introduction to Rehabilitation of the locomotor disabled
- 1.2 Introduction to body systems (Parts, functions and movements involved)
- 1.3 Introduction to Normal Development
- 1.4 Assessment and Communication, Teaching & Play activities of daily living
- 1.5 ICF (International Classification of Functioning Disability and Health) Overview

Extra reading / keywords: Rehabilitation Therapy Assistant

Manual by NorrisMerie

UNIT2: Orthosis and Prosthesis

- 2.1 Definitions
- 2.2 Indications for recommending orthotic and prosthetic devices
- 2.3 Characteristics and effects of orthosis and prosthesis
- 2.4 Types of orthoses and prostheses
- 2.5 Role of Physical Therapist and maintenance of orthotics and prosthetics

Extra reading / keywords : Tidy's physiotherapy

INTERVENTION AND REHABILITATION THERAPY FOR LOCOMOTOR DISABILITY (MEANING, CAUSES, TYPES, ASSESSMENT AND DOCUMENTATION, ASSOCIATED PROBLEMS, AIDS AND APPLIANCES)

UNIT3: Orthopaedic and musculoskeletal

Problems

- 3.1 Poliomyelitis
- 3.2 Fracture
- 3.3 Spinal cord injury and Spinal deformities
- 3.4 Amputation and pressure sores
- 3.5 Muscular dystrophy

Extra reading / keywords: Rehabilitation Therapy Assistant Manual b Norris Meriel,

UNIT4: Neurological Problems, Diseases of Joints and Common congenital Deformities

- 4.1 Stroke, Paralysis and Spina Bifida -Paraplegia, Quadriplegia and Hemiplegia
- 4.2 Head Injury and Cerebral Palsy
- 4.3 Infectious arthritis.
 - 4.3.1 Osteoarthritis, Rheumatoid arthritis
 - 4.3.2 Ankylosing, Spondylo arthritis and Re- active arthritis.
 - 4.3.3 Pseudo gout and Arthrogyphosis,
- 4.4 Congenital limb deficiencies
- 4.5 Genu Vulgum / Knock knees

Extra reading / keywords: Rehabilitation Therapy Assistant Manual by Norris Meriel,

UNIT5: Assessment scales and mobility aids

- 5.1 Principle of assessment for persons with locomotor disability
- 5.2 Gross motor functional classification system (GMFCS), Manual ability classification system (MACS),
Functional mobility scale (FMS), locomotor capability index (LCI)
- 5.3 Assessment and prescription of walkers, Cane and crutches
- 5.4 Assessment and prescription of wheelchairs

system 5.5 Assessment and prescription of positional devices that includes sitting, standing and lying

Extra reading / keywords :). Rehabilitation Therapy Assistant Manual b Norris Meriel.

Note: Extra Reading / Keywords are only for Internal Testing (Seminar / Assignments)

PRACTICUM:

1. Visit to a physiotherapy clinic and report about the visit
 - Assessment activities**
 - Brain storming
 - Collection
 - Discussion
 - Field visit report
2. Observation of patients with locomotor disabilities and therapeutic treatments.
3. Preparation of detailed case studies with assessment, intervention & suggestions.
4. Preparation of Models of aids and appliances for locomotor disabled.

Course Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Recall and compare the different body systems, movements related to it and components of rehabilitation of the locomotor disabled	PSO 1	U
CO-2	Understand and explain orthotics and prosthetics.	PSO 2	U
CO-3	Prepare intervention plan and rehabilitation therapy for orthopaedic problems	PSO 3	E
CO-4	Evaluate and prepare intervention plan and rehabilitation therapy for neurological impairments, diseases of joints and congenital deformities	PSO 3	E
CO-5	Assessment using GMFCS, MACS, FMS ,LCI and prepare rehabilitation therapy	PSO 1	E
CO-6	Evaluate and prepare intervention plan and rehabilitation therapy with suitable mobility aids.(skill development)	PSO 2	E

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1. Taly A.B.& Murali T., (2001). Foundations and Techniques in Neurological

Rehabilitation.

Bangalore; NIMHANS.

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4. Murickan, J.S.J. and Kareparampil, G. (1995). Persons with Disabilities in Society, Trivandrum ; Kerala Federation of the Blind.
5. Werner David (1987). Disabled Village Children. U.S.A.; The Hesperian Foundation
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7. Hallahan D.P. & Kauffman J.M. (1978). Exceptional Children. New Jersey; Prentice Hall Inc.
8. Goldenson, R.M. et.al. (1978). Disability and rehabilitation Handbook. New York; Mc. Graw Hill.
9. www.oandplibrary.org/op/pdf/1977_02.pdf
10. www.jaypeedigital.com/Book/BookDetail?isbn=9788184488197

Course Title	MAJOR CORE – 7 ASSESSMENT PROCEDURES
Total Hours	60
Hours/Week	4 Hours per week
Code	P22RS2MCT07
Course Type	Theory
Credits	4
Marks	100

GENERAL OBJECTIVES:

To understand various concepts in assessment and its application in research.

CO No.	Course Objectives
CO-1	Explain the various types of data and tests.
CO-2	Explain the various technical aspects of assessment.
CO-3	Describe the various methods of assessment.
CO-4	Discuss about statistical analysis and interpretations.

UNIT 1: INTRODUCTION TO ASSESSMENT (12hrs)

- 1.1 Definitions / meaning of screening, assessment, testing and diagnosis, measurement and evaluation.
- 1.2 Purposes of assessment and evaluation
- 1.3 Concept, types of assessment data with advantages and disadvantages
- 1.4 Functions and principles of evaluation
- 1.5 Differences between assessment and evaluation

Extra reading/ keywords: *screening, assessment, testing and diagnosis, measurement and evaluation.*

UNIT 2: TYPES OF ASSESSMENT (12hrs)

- 2.1 Concept and differences, advantages and disadvantages of formal and informal assessment.
- 2.2 Concept, differences, advantages and disadvantages, of norm and criterion referenced assessment.
- 2.3 Concept, differences, advantages and disadvantages of formative and summative assessment.
- 2.4 Continuous vs. Final Assessment
- 2.5 Process vs. Product Assessment and Divergent vs. Convergent Assessment

Extra reading/ keywords: *Formal and informal assessment, norm referenced and criterion referenced assessment, formative and summative assessment*

UNIT 3: TECHNICAL ASPECTS OF ASSESSMENT/RESEARCH (12hrs)

- 3.1 Selection of tools and criteria for selection of tools

- 3.2 Different types of tools with their advantages and disadvantages
- 3.3 Standardization of a test
- 3.4 Steps in construction of knowledge tests and attitude scales.
- 3.5 Criteria of assessment/ tool- validity, reliability, their measurement

Extra reading/ keywords: *types of tools, standardized test, knowledge and attitude test, validity and reliability test.*

UNIT 4: METHODS OF DATA COLLECTION FOR ASSESSMENT/ RESEARCH (12hrs)

- 4.1 Characteristics and types of observation
- 4.2 Recording observation and types of recording.
- 4.2 Concept, advantages and disadvantages of focus group interview
- 4.3 Concept, steps, advantages and disadvantages of case study.
- 4.5 Work Sample Analysis

Extra reading/ keywords: *types of data collection, interview, questionnaire – open and close end, case study, group interview.*

UNIT 5: ANALYSIS OF DATA/HYPOTHESIS TESTING (12hrs)

- 5.1 Variables and data
- 5.2 Measures of central tendency
- 5.2 Measures of relationship. Comparison
- 5.3 Measures of association
- 5.5 Testing of Hypotheses

Extra reading/ keywords: *parametric and non-parametric test, mean, median, mode, standard deviation, relationship, chi square.*

PRACTICUM:

- 1. Writing observation reports.
- 2. Preparing a questionnaire / checklist.
- 3. Item analysis for attitude tests.
- 4. Item analysis for knowledge tests.

Course Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Recall the various types of data and tests.	PSO 1	R, U
CO-2	Relate the various technical aspects of assessment in research.	PSO 2	R, An
CO-3	Select the various methods of assessment in research.	PSO 3	R,U
CO-4	Apply different methods in collecting data.	PSO 4	R, Ap

CO-5	Compute and solve data using suitable statistical analysis and interpretations	PSO 5	R, Ap
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**PO – Programme Outcomes; CO – Course Outcome; R- Remember; U- Understand;
Ap – Apply; An – Analyse; E- Evaluate; C – Create**

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1. Best, J.W., & Khan, J.V. (2000) Research in Education (7th Edition). New Delhi: Prentice Hall of India Pvt. Ltd.
2. Koul, L. (1997) Methodology of Educational Research. New Delhi: Vikas Publishing House Pvt. Ltd.
3. Panda, S. (Ed.), (2001) Booklet on Methods and Techniques of Classroom Research. B.Ed.(SE-DE) Programme, Bhopal : Madhya Pradesh Bhoj (Open) University.
4. Panda, S. (Ed.), (2002) Educational Planning and Management, Curriculum Designing and Research in Booklet on Evaluation. B.Ed. (SE-DE) Programme, Bhopal: Madhya Pradesh Bhoj (Open) University.
5. Sharma, R.A. (1998). Advanced Studies in Education and Psychology. Meerut: R. Lall Book Depot.
6. Swarup, S. (Ed.), (2001) Booklet on Identification and Assessment of Disabilities and Curriculum Planning, B.Ed.(SE-DE) Programme, Bhopal : Madhya Pradesh Bhoj (Open) University.
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Course Title	Major Core – 8: ADMINISTRATION OF REHABILITATION PROGRAMMES
Total Hours	75
Hours/Week	5 Hrs Wk
Code	P22RS2MCT08
Course Type	Theory
Credits	4
Marks	100

GENERAL OBJECTIVE :

To understand the various procedures involved in rehabilitation administration and different schemes available for persons with disability

Course Objectives:

The learner will be able to

CO No.	Course Objectives
CO-1	Remember various process involved in Rehabilitation Administration.
CO-2	Understand various roles and responsibilities of Rehabilitation Professionals
CO-3	Remember different legal measures and provisions involved in Rehabilitation Programs.
CO-4	Analyse the Policies, legislation and Role of National Institutes in the administration and management of Rehabilitation Programs for Persons with Disability
CO-5	Analyse the schemes and concessions available and its significance in the life of persons with disability (skill development)

UNIT 1: Introduction to Rehabilitation Administration (10 Hours)

- 1.1 Concepts / Definitions, importance, goals of rehabilitation administration
- 1.2 Rehabilitation as profession, its characteristics
- 1.3 Scope of Rehabilitation Administration
- 1.4 Skills necessary for rehabilitation administration
- 1.5 Role of rehabilitation administrators

Extra reading/ keywords: *rehabilitation, administration, professional skills, role.*

UNIT 2: Personnel in Rehabilitation Administration (10 Hours)

- 2.1 Categorization of rehabilitation professionals – personnel, qualification
- 2.2 Chief Commissioner for Persons with Disabilities - functions
- 2.3 State Commissioner for Persons with Disabilities – functions
- 2.4 District Disability Rehabilitation officer - functions
- 2.5 Rehabilitation Social Workers – functions

Extra reading/ keywords: *categorization- personnel and qualification, state and chief commissioner for PWD, DDRO, rehabilitation social worker.*

UNIT 3: Legislation, Policies and Role of National Institutes in promoting the Rights of Persons with Disability (15 Hours)

3.1 Policies Relating to Persons with Disability

- The National Policy for persons with disabilities, 2006
- International Policy -**United Nations Convention on the Rights of Persons with Disabilities (UNCRPD), 2006**

3.2 Acts relating to Persons with Disability

- The Rights of Persons with Disabilities Act, 2016
- The National Trust for the Welfare of Persons with Autism, Cerebral Palsy, Mental Retardation and Multiple Disabilities Act, 1999
- Rehabilitation Council of India Act, 1992

3.3 National Institutes for Persons with Disability

- National Institute for the Empowerment of Persons with Visual Disabilities (**NIEPVD**)
- Ali Yavar Jung National Institute of Speech and Hearing Disabilities (**AYJNISHD**)
- National Institute for the Empowerment of Persons with Intellectual Disabilities (**NIEPID**)
- National Institute for Empowerment of Persons with Multiple Disabilities (**NIEPMD**)
- Pt. Deendayal Upadhyaya National Institute for Persons with Physical Disabilities (**PDUNIPPD**)
- Swami Vivekanand National Institute of the Rehabilitation Training and Research (**SVNIRTAR**)
- National Institute for Locomotor Disabilities (**NILD**)
- Indian Sign Language Research & Training Centre (**ISLRTC**)
- National Institute of Mental Health and Rehabilitation (**NIMHR**)

3.4 Legislations in formation of an NGO – Society Act, Trust Act, foreign visitors

3.5 Foreign contribution regulation act - acceptance, permission, registration, filing of returns

Extra reading/ keywords: *UNCRPD, National Policy, RPwD Act, NTA Act, RCi Act, FCRA,*

UNIT 4: Schemes for Persons with Disability

4.1 Central Public Sector Enterprises (CPSEs)

- National Handicapped Finance and Development
- Artificial Limbs Manufacturing Corporation of India (ALIMCO)

4.2 Schemes of the Department of Empowerment of Persons with Disabilities (Divyangjan)

- Guidelines for Providing Financial Assistance under the National Fund for Persons with Disabilities
- Deendayal Disabled Rehabilitation Scheme(DDRS)
- Assistance to Disabled Persons for Purchase/Fitting of Aids/Appliances(ADIP)
- Scheme for Implementation of Persons with Disabilities Act, 1995 (SIPDA)
- District Disability Rehabilitation Centres (DDRCs)

4.3 Other Schemes

- Scholarship/ Schemes
- Accessible India Campaign (Sugamya Bharat Abhiyan)
- Awareness Generation and Publicity Scheme
- Trust fund for Empowerment of Persons with Disabilities
- Swavlamban Group Mediclaim Policy for Persons with Disabilities of Trust Fund for Empowerment of Persons with Disabilities
- Research on disability related technology, products and issues
- Scheme of Inservice Training and Sensitization of key functionaries of Central and State Governments, Local Bodies and other Service Providers.
- **Central Sector Scheme of “Support for Establishment/ Modernization/Capacity Augmentation of Braille Presses.**
- **Unique Disability ID (UDID)**
- **Skill Development of PwDs**
- Indian Spinal Injuries Centre, New Delhi
- New Initiatives and Schemes in progress

4.4 Schemes of the organizations under the Department

- The National Trust for the welfare of Persons with Autism, Cerebral Palsy, Intellectual Disability and Multiple Disabilities

4.5 National Awards for the Empowerment of PwDs

Extra reading/ keywords: *Various Schemes and their guidelines of administration*

UNIT 5: Benefits for PWD

(15 Hours)

- 5.1 Concessions for PWD – travel, communication, customs/excise, transfers, vehicle Insurance
- 5.2 Disability insurance – Eligibility, Claim, Schemes
- 5.3 Income tax act –Deductions, Registration, Investments, Exemptions
- 5.4 Wealth tax and gift tax
- 5.5 Employee's benefit Scheme - Provident fund, Gratuity

Extra reading/ keywords: *PWD concessions in travel, communication, IT act, insurance, wealth and gift tax, PF and EPF*

Note: Extra Reading / Keywords are only for Internal Testing (Seminar / Assignments)

Course Outcomes:

The learner will be able to

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Explains the concept of rehabilitation and process involved in rehabilitation administration.	PSO 1	R, U
CO-2	Discuss the roles and responsibilities of rehab professionals	PSO 2	R, U
CO-3	Enumerates various Policies, Legislation, Role of National Institutes in the Administration of Rehabilitation Services for Persons with Disability.	PSO 3	R.,U
CO-4	Illustrates the various Schemes at the Central and State for the welfare and Rehabilitation of Persons with Disability.	PSO 4	U, Ap
CO-5	Explain benefits available for disabled and its significance in the life of persons with disability	PSO 5	U, An

PRACTICUM:

(10 Hours)

1. Visit various Government organizations to collect information regarding the welfare schemes for the various types of disabled persons.
2. Prepare a booklet / CD or other material in local language regarding the various welfare schemes applicable to the disabled.
3. To organize awareness programmes / camps to disseminate information regarding the Welfare Schemes to the disabled persons.
4. To conduct / organize programs to highlight the need for services and rehabilitation for the different categories of needy people.

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11. Handbook On Laws Governing Formation And Administration of Charitable Organisations In India
12. <http://www.ccdisabilities.nic.in/>
13. www.rehabcouncil.org
14. www.disabilityindia.org/aidscheme.cfm
15. <http://socialjustice.nic.in/schemespro3.php>
16. <https://disabilityaffairs.gov.in/>

Course Title	MAJOR CORE – 9 MANAGEMENT OF PERSONS WITH MULTIPLE DISABILITIES
Total Hours	75
Hours/Week	5 Hrs Wk
Code	P22RS2MCT09
Course Type	Theory
Credits	4
Marks	100

GENERAL OBJECTIVE:

To understand the basics of Multiple Disabilities, Causes, Characteristics, Assessment, Service delivery model and the Educational facilities, Management and life-planning services for Persons with Multiple Disabilities.

Course Objectives:

The learner will be able to

CO No.	Course Objectives
CO-1	Understand the Concept and Types and Combinations of Multiple Disabilities.
CO-2	Describe and discuss the various types of Assessment and Service delivery models for Persons with Multiple Disabilities
CO-3	Describes the various needs and management techniques of persons with Multiple Disabilities
CO-4	Explain the various Communication Modes and systems used by Persons with Multiple Disabilities.
CO-5	Understand and explain the Educational facilities, Management and Life-planning services for Persons with Multiple Disabilities

UNIT 1: Introduction to Multiple Disabilities

(15 hrs)

- 1.1 Definition, impact and combinations of multiple disabilities.
- 1.2 Difference between Multiple Disabilities and Profound Mental Retardation.
- 1.3 Definition, labels, Impact, Implications, Causes and Characteristics of Person with Multiple Disabilities.
- 1.4 Levels of care and adaptations needed for Persons with Multiple Disabilities.

1.5 Various Combinations of Multiple Disabilities and Associated Conditions such as Epilepsy, Motor and Sensory Conditions, Other Disabling Conditions such as Leprosy Cured Students, Tuberos Sclerosis and Multiple Sclerosis.

Extra reading/ keywords: multiple disabilities, profound mental retardation, adaptations, deaf blindness

UNIT 2: Assessment of Multiple Disabilities (10 hrs)

- 2.1 Aims, factors and issues in Assessment of Persons with Multiple Disabilities
- 2.2 Functional assessment, important aspects and key elements in assessing Persons with Multiple Disabilities
- 2.3 Models and approaches and skills in Psychological Assessment of Persons with Multiple Disabilities.
- 2.4 Areas of assessment for various combinations of Disabilities.
- 2.5 Selection of Assessment battery and Adaptations for Persons with Multiple Disabilities.

Extra reading/ keywords: General Assessment, functional assessment, psychological assessment , battery, adaptations

UNIT 3: Needs and Approaches and Policy frameworks in Management of Multiple Disabilities (12 hrs)

- 3.1 Needs of Persons with Multiple Disabilities, their Families and Professionals serving them.
- 3.2 Various Professionals and their role in serving Multi Disabled Persons.
- 3.3 Concept, organization, advantages and disadvantages of Multi-disciplinary team approach. Interdisciplinary team approach and Transdisciplinary team approach.
- 3.4 Leisure time Provisions for Persons with Multiple Disabilities.
- 3.5 Rights and Policies pertaining to the Multi disabled.

Extra reading/ keywords: Multi-disciplinary team approach for Deafblind, Interdisciplinary team approach for MR and VI, Trans disciplinary team approach for MD

UNIT 4 : Inclusion , Communication Methods and Assistive Technology for Persons with Multiple Disabilities (13 hrs)

- 4.1 Inclusion and Participation of Students with Multiple Disabilities
- 4.2 Modes of communication for the Deaf-Blind and Persons with Multiple Disabilities.
- 4.3 Communication systems for the Deaf-Blind and Persons with Multiple Disabilities.
- 4.4 Augmentative communication for Persons with Multiple Disabilities
- 4.5. Assistive Technology for Children with Multiple Disabilities

Extra reading/ keywords: Communication System, Augmentative communication

UNIT 5: Curriculum and Life Planning for Persons with Multiple Disabilities (12 hrs)

- 5.1 Approaches, Principles and Models of Curriculum for various combinations of Multi Disabled Children.
- 5.2 Functional curriculum, instructional programming, teaching strategies and Classroom modifications for children with the Multiple Disabilities
- 5.3. Implications of Functional Limitations for Education and Creating Prosthetic Environment in School and Home: Seating Arrangements, Positioning and Handling Techniques at Home and School.
- 5.4 Facilitating Teaching-Learning: IEP, Developing TLM.
- 5.5 Social, Personal and Community Adjustment and Prevocational and Vocational Programming the Multi Disabled.

Extra reading/ keywords: curriculum, functional curriculum, teaching strategies, classroom modifications

Note: Texts given in the extra reading/key words must be tested only through Assignment and Seminars.

Course Outcomes:

The learner will be able to

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Explains the definition, implications, causes and characteristics of person with multiple disabilities	PSO 1	R, U
CO-2	Describes and relates the functional assessment, important aspects and key elements in assessing persons with multiple disabilities	PSO 2	U, An
CO-3	Discusses the needs of persons with multiple disabilities, their families and professionals serving them	PSO 3	U
CO-4	Understands and applies the Communication Methods for Persons with Multiple Disabilities	PSO 4	U, Ap
CO-5	Demonstrates the Curriculum and Life Planning for Persons with Multiple Disabilities (Employability and Entrepreneurship)	PSO 5	U, Ap

PRACTICUM :

(10 hrs)

1. Writing a case study of a Multi Disabled Child.
2. Visiting programs for the Multi Disabled.
3. Formulating and using a Communication System for the Multi Disabled.
4. Designing and using a baseline program for the Multi Disabled.

REFERENCES:

1. Voice and Vision Task Force, HKI for the Deaf and Deaf Blind, (2003). Education of Children with Deafblindness and Additional Disabilities, Source book for Master Trainers, Secunderabad, NIMH.
2. Muthaiah, N. (2001) Education of Low Vision Children with Associated Disabilities in Mani, M.N.G., (Ed.) Booklet on Education of Low Vision Children. B.Ed.(SE-DE) Programme, Bhopal : Madhya Pradesh Bhoj (Open) University.
3. Narayanan, J. (2001) Curriculum for Persons with Severe / Profound Mental Retardation and Multiple Disabilities in Booklet on Curriculum Guidelines in Mental Retardation. B.Ed.(SE-DE) Programme, Bhopal : Madhya Pradesh Bhoj (Open) University.
4. Narayanan, J. (2001) Booklet on Motor and Communication Aspects - Role of multidisciplinary Team. B.Ed.(SE-DE) Programme, Bhopal : Madhya Pradesh Bhoj (Open) University.
5. Myreddi , V (2001) Task Analysis, Reinforcement, Modelling, Shaping, Chaining, Prompting and Fading in Booklet on Teaching Strategies. B.Ed.(SE-DE) Programme, Bhopal : Madhya Pradesh Bhoj (Open) University.
6. Thawani, V.B.(2000) Visually Impaired Children with Multiple Disabilities in Punani, B. & Rawal, N., (2000) Visual Impairment Handbook, Ahmedabad; Blind Peoples Association.
7. Paul, A.S. (2000) Persons who are Deafblind in Punani, B. & Rawal, N., (2000) Visual Impairment Handbook, Ahmedabad; Blind Peoples Association.
8. Brown, D. (2000) Trends in Population of Children with Multi Sensory Impairments. Paper presented at Joint Asian Conference, Ahmedabad; ICEVI & DBI.
9. Guest, M. (2000) Identification and Definition of Deaf Blindness. Paper presented at Joint Asian Conference, Ahmedabad; ICEVI & DBI.
10. De. Jong, Coen G.A. (1995) Educational Opportunities for all Multihandicapped Children, a paper presented in ICEVI Asian Conference, Ahmedabad.
11. Erin, J., (1995) Children with Multiple and Visual Disabilities in Hollbrook, C.M. (Ed.), Children with Visual Impairments. Bethesda (USA) : Woodbine House.
12. Mohit, A., (1995) Issues Concerning Programme Planning for Visually Impaired, Multi handicapped Children, a paper presented in ICEVI Asian Conference, Ahmedabad.
13. Barbara, M., (1995) Overview of Deafblindness. Boston: Helen Keller National Centre Perkins School for the Blind.
14. *Melanie Nind and Iva Strnadova* , (2020) Belonging for People with Profound Intellectual and Multiple Disabilities - Pushing the Boundaries of Inclusion: Routledge Publications
15. *Dreenagh Lyle* (2019), Understanding Profound Intellectual and Multiple Disabilities in Adults: Routledge Publications
16. *Mike Mclinden , Steve Mccall and Liz Hodges* (2020) Learning through Touch Supporting Learners with Multiple Disabilities and Vision Impairment through a Bioecological Systems Perspective: Routledge Publications
17. James Hogg and J. Cavet (1995) Making Leisure Provision for People with Profound Learning and Multiple Disabilities ,Springer Publications
18. Mina Agarwal , Training Module for Multiple Disability by Sarva Shiksha Abhiyan

Course Title	MAJOR CORE – 10 INTERVENTION FOR LEARNING DISABILITIES
Total Hours	60
Hours/Week	4 Hrs
Code	P22RS2MCT10
Course Type	Theory
Credits	4
Marks	100

General Objectives:

To understand the history, etiology, prevention, incidence, classifications and types of Learning Disabilities and describe the varied related problems and intervention procedures for children with Learning Disabilities.

COURSE OBJECTIVES

The learner will be able to

CO No.	Course Objectives
CO-1	Understand the nature of learning disability and classify the types
CO-2	Analyze the assessment measures for program planning for children with learning problems.
CO-3	Apply remedial strategies for children with Learning Disability
CO-4	Analyze and evaluate the associated conditions of Learning Disabilities
CO-5	Understand and analyze the concept of Giftedness and twice Exceptional

UNIT 1: LEARNING DISABILITY

(10 Hrs)

- 1.1 Nature, Concept, Definition
- 1.2 Prevalence and Characteristics of Students with LD
- 1.3 Historical overview of LD
- 1.4 Services for LD -National and International scenario
- 1.5 LD across the life span

Extra reading/ keywords: *Children with Learning Disabilities, services, life span*

UNIT 2: EARLY IDENTIFICATION AND ASSESSMENT PROCEDURES
(10 Hrs)

- 2.1 Concepts of screening, identification, assessment, measurement and Evaluation.
- 2.2 Assessment procedures for learning Disability
- 2.3 Alternative Assessment Procedures
- 2.4 Screening and Assessments in India
- 2.5 Informal Classroom-based Assessment

Extra reading/ keywords: *Checklists, Fact Sheets on learning Disability*

UNIT 3: REMEDIAL STRATEGIES FOR LEARNING DISABILITIES (10 Hrs)

- 3.1 Learning Disability and Learning Styles
- 3.2 Accommodations, Modifications and Interventions
- 3.3 Remedial strategies for Dyslexia, Dyscalculia and Dysgraphia
- 3.4 Secondary manifestations - Socio-emotional problems in LD
- 3.5 Differentiating Instruction for Students with Learning disabilities

Extra reading/ keywords: *Multiple Intelligence, Innovative Teaching Strategies*

UNIT 4: LEARNING DISABILITIES AND ASSOCIATED CONDITIONS
(10 Hrs)

- 4.1 Visual Processing Disorder and Auditory Processing Disorder
- 4.2 Language Processing Disorders
- 4.3 Nonverbal learning Disorders
- 4.4 Dyspraxia, Aphasia/dysphasia
- 4.5 ADD & ADHD, Scotopic sensitivity

Extra reading/ keywords: *Anxiety and learning disability, Executive functions and Memory*

UNIT 5: GIFTEDNESS AND LEARNING DISABILITY – TWICE EXCEPTIONAL
(10 Hrs)

- 5.1 Identification of Giftedness
- 5.2 Characteristics of Giftedness
- 5.3 Types of Giftedness
- 5.4 Strategies for Teaching Twice-exceptional Students
- 5.5 Vocational Education and Higher Education

Extra reading/ keywords: *Cognitive strengths and challenges of Gifted Learning Disabled*

Note: *Extra Reading / Keywords are only for Internal Testing (Seminar / Assignments)*

COURSE OUTCOMES (CO):**The learner will be able to**

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Explain the nature of learning disability and classify the types	PSO 1	R, U
CO-2	Discuss the assessment measures for program planning for children with learning problems.	PSO 2	R
CO-3	Describe the remedial strategies for children with Learning Disability	PSO 2	U
CO-4	Explain and summarize the concept of Giftedness and twice Exceptional (employability)	PSO 3	R

PRACTICUM:**(10 Hrs)**

1. Survey in schools to screen children with learning disability.
2. Administration of basic learning abilities checklist.
3. Prepare a case study of a child with LD

BOOKS FOR REFERENCE

1. Dr. Anupriya Chadha (2004). Training manual for teachers to teach children with Learning Difficulties.
2. Hallahan D.P., and Kauffman J.M. (1976), Introduction to Learning disabilities - A Psycho - Behavioural Approach. New Jersey; Prentice Hall.
3. Johnson S.W. and Morasky R.L. (1980), Learning Disabilities. U.S.A.; Allyn & Bacon.
4. Kavale K.A., Forness S.R. & Bender M, (1987), Handbook of Learning Disabilities. Vol-I; Dimensions and Diagnosis. London; Taylor & Francis Ltd.
5. Kirk S.A. and Gallagher J.J, (1989), Educating exceptional children. Boston; Houghton Mifflin Company.
6. Swanson M.B., Willis D.J., (1979), Understanding Exceptional Children and Youth. Chicago; Rand McNally College Publishing Company.
7. Omita Nakra, (1996), Children With Learning Difficulties, New Delhi; Allied Publishers Ltd.
8. Corinne Roth Smith, (1991), Learning Disabilities, U.S.A.; Allyn & Bacon.

Course Title	MAJOR CORE - 11 MANAGEMENT OF PERSONS WITH AUTISM AND ADHD
Total Hours	90
Hours/Week	6 Hrs
Code	P22RS3MCT11
Course Type	Theory
Credits	6
Marks	100

General Objectives:

To understand the history, etiology, prevention, incidence, classifications of Autism and ADHD and describe the varied related problems and intervention procedures for Autism and ADHD.

Course Objectives:

CO No.	Course Objectives
CO-1	Remember and understand the causes, characteristics, assessment and diagnosis of children with autism
CO-2	Understand and analyze the Social, Communication and Behavioral Aspects of Autism.
CO-3	Apply and evaluate the importance of Curriculum Planning and Classroom Management for Autism
CO-4	Analyze and evaluate the sensory experiences in children with Autism
CO-5	Remember and understand the causes, characteristics and interventions for persons with ADHD

UNIT 1: INTRODUCTION TO AUTISM

(15 Hrs)

- 1.1 Definition and History
- 1.2 Causes of Autism
- 1.3 Characteristics of Autistic behavior
- 1.4 Intelligence & Special talents
- 1.5 Assessment and Diagnosis of Autism

Extra reading/ keywords: *PDD, Asperger's Syndrome, Savant Abilities*

UNIT 2: SOCIAL, COMMUNICATION AND BEHAVIORAL ASPECTS OF AUTISM AND INTERVENTIONS

(13 Hrs)

- 2.1 Social Skills in Children with Autism
- 2.2 Communication
- 2.3 Alternative and Augmenting Communication
- 2.4 Behavioral difficulties in children with Autism
- 2.5 Managing Challenging behaviors

Extra reading/ keywords: *Social Skill Training (SST). Social Skills Groups, Speech generating devices*

UNIT 3: CURRICULUM PLANNING AND CLASSROOM MANAGEMENT FOR AUTISM (12 Hrs)

- 3.1 Classroom Management
- 3.2 Curriculum Planning and areas of Learning
- 3.3 TEACCH and SPELL
- 3.4 Applied Behavior Analysis
- 3.5 Development of Play in Children with Autism

Extra reading/ keywords: *Structured Teaching, Discrete Trial Training, PECS, Natural Language Paradigm*

UNIT 4: SENSORY EXPERIENCES IN AUTISM (13 Hrs)

- 4.1 Perception
- 4.2 Autistic way to perceive the world.
- 4.3 Perceptual styles
- 4.4 Cognitive Styles
- 4.5 Other sensory conditions

Extra reading/ keywords: *Sensory Sensitivities, Synesthesia, Thinking in Pictures*

UNIT 5: ADHD AND INTERVENTION STRATEGIES (12 Hrs)

- 5.1 Introduction to ADHD
- 5.2 Academic Instruction for children with ADHD
- 5.3 Behavioral Interventions
- 5.4 Classroom Accommodations
- 5.5 Treatment options for ADHD

Extra reading/ keywords: *Cognitive Behavior Therapy, Complimentary medicine for ADHD.*

Note: Extra Reading / Keywords are only for Internal Testing (Seminar / Assignments)

Course Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Explain the causes, characteristics, of children with autism	PSO 1	R, U
CO-2	Discuss the assessment procedures and diagnosis of children with autism	PSO 2	R
CO-3	Discuss and assess Social, Communication and Behavioral Aspects of Autism.	PSO 2	U
CO-4	Elaborate the Communication problems in children with Autism.	PSO 3	R

CO-5	Elaborate the Behavioral problems in children with Autism.	PSO 4	An
CO-6	Elaborate the importance of Curriculum Planning and Classroom Management for Autism	PSO 4	U
CO-7	Explain and summarize the sensory experiences in children with Autism.	PSO 5	R, An
CO-8	Explain and summarize the causes, characteristics and interventions for persons with ADHD	PSO 5	R, An

PO – Programme Outcomes; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create

PRACTICUM:

(10 Hrs)

1. Prepare 2 Case Study one each of a child with Autism and ADHD
2. Plan curriculum (IEP) for the child with Autism and write IEP (3 nos).

REFERENCES:

1. Val Cumine, Julia Leach & Gill Stevenson (2000). Autism in the Early Years - A Practical Guide. David Fulton Publishers Ltd., London, U.K.
2. "Teach Me Language". (2000). A Language Manual for children with Autism, Asperger's Syndrome and related Developmental Disorders by Sabrina Freeman Ph.D., Lorelei Dake, B.A. Hard Cover: ISBN 0-9657565-0-5
3. Applied Behavior Analysis: (1999) A Well-Studied Therapy for Autism by Robert Needlman, M.D., F.A.A.P.
4. Ann Turnbull, Rud Turnbull, Marilyn Shank, Dorothy Leal (1999). Exceptional Lives Special Education in Today's Schools, United States of America: R.R. Donnelley and Son's Company

Course Title	MAJOR CORE – 12 INTELLECTUAL DISABILITY – MULTIDISCIPLINARY ASPECTS (PRACTICALS)
Total Hours	90
Hours/Week	6 Hrs / Wk
Code	P22RS3MCP12
Course Type	Practical
Credits	5
Marks	100

General Objective:

To enable the students, understand and develop theoretical and practical knowledge and skills on screening, assessment and intervention of the mentally retarded.

COURSE OBJECTIVES

The learner will be able to

CO No.	Course Objectives
CO-1	Understand and apply the methods of screening and case profiling of CWSN in primary schools and slums.
CO-2	Analyze and apply physio, speech, behavioural and occupational assessment
CO-3	Understand and create lesson plans and teaching materials
CO-4	Understand and apply co-curricular activities for the mentally retarded
CO-5	Analyze and create assistive technology and e- resources for the mentally retarded.

UNIT 1: SCREENING AND IDENTIFICATION OF CHILDREN WITH MENTAL RETARDATION (20 HOURS)

- 1.1 Screening and Identification (School/slum)
- 1.2 Case profile/case study
- 1.3 Home visit and organizing a parent training
- 1.4 Participating in a camp
- 1.5 Awareness programme

Extra reading/ keywords: *Screening, case profile, case review committee,*

UNIT 2: ASSESSMENT AND THERAPEUTIC / CASE PROFILING /

REPORTING AND FOLLOW-UP**(20 HOURS)**

1. Psychological Assessment / Intervention
- 2.2 Speech Assessment / Intervention
- 2.3 Physical Assessment / Intervention
- 2.4 Occupational Assessment / Intervention
- 2.5 Behavioural Assessment / Intervention

Extra reading/ keywords: *assessment, speech, articulation, occupational therapy, behaviour modification*

UNIT 3: PLANNING AND EDUCATIONAL INTERVENTION (20 HOURS)

1. Formulating and Implementing IEP
2. Preparing Lesson Plan & Teaching Practice
3. Preparing Concept Book
4. Montessori Album
5. Rhyme / Story / Figure book

Extra reading/ keywords; *lesson plan, didactic approach, multisensory method, IEP*

UNIT 4: CO-CURRICULAR**(15 HOURS)**

1. Art / Craft activity
2. Games
3. Music / Action songs
4. Dance / Drama
5. Yoga

Extra reading/ keywords: *Hydrotherapy, adapted games, special Olympics, drama therapy, dance therapy, yoga therapy*

UNIT 5: ASSISTIVE TECHNOLOGY FOR MENTALLY RETARDED (15 HOURS)

1. Developing CD's
2. Puppetry
3. Adaptive aids
4. Preparing Pamphlets / Booklets
5. Upcoming trends and research initiatives

Extra reading/ keywords: *adaptive aids, assistive technology, puppetry*

COURSE OUTCOMES (CO):

The learner will be able to

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Understand and apply the methods of screening and case profiling of CWSN in primary schools and slums	PSO 1	R, A

CO-2	Describe and apply physio, speech, behavioural and occupational assesment	PSO 2	U,A
CO-3	Prepare, plan and implement lesson plans and teaching materials.	PSO 3	R, A
CO-4	Explain and implement co-curricular active for the mentally retarded	PSO 4	A,An
CO-5	Develop e-resources for the mentally retarded (employability)	PSO 5	C

TEXT BOOKS:

1. Madhya Pradesh Bhoj Open University B.Ed.(SE-DE) Manual. Bhopal.
2. Turnbull, A.P. Srickland, B.B., Visual Art, London: Merrill.

EXTRA READING:

1. Bell, L. and Klemx, A. (1981), Physical Handicap, Cambridge; Woodhead- Faulkner.
2. Bhatt Usha (1963). The Physically Handicapped in India. Bombay; Shivilaxmi Bhuvana.
3. Gellis & Feingold - Atlas to Mental Retardation syndromes, Department of Health Education and Welfare.
4. Goldenson, R.M. et.al. (1978). Disability and rehabilitation Handbook. New York; Mc.Graw Hill.
5. Hallahan D.P. & Kauffman J.M. (1978). Exceptional Children. New Jersey; Prentice Hall Inc.
6. Herbert.J.Crossman, 1983 - Classification in Mental Retardation (American Asso. on Mental Deficiency).
7. Immanuel, S.P. & Agnes, Leela (1996). Community Based Rehabilitation for Disabled. Tiruchirapalli ; Holy Cross Service Society.
8. Johnson & Beerner, 1975 - A Step by Step Learning Guide for Retarded Infants and Children.
9. Johnson & Berner,A. 1977 - A Step by step Learning Guide for older Retarded children (Syracuse Univ. Press).
10. Mental Retardation; Nature, Cause and Management/Baroff. N.Y. Hemesphere, Pub. 1986 54 p.
11. Murraray Culshaw, 1983. It will soon be dark, (National Council of Chusches in India).
12. Murickan, J.S.J. and Kareparampil, G. (1995). Persons with Disabilities in Society, Trivandrum ; Kerala Federation of the Blind.
13. Nelsworth & Smith,M. 1978 - Retardation Mc. Graw Hill.

14. Norris Meriel, (1997). Rehabilitation Therapy Assistant Manual. Bangalore; Rehabilitation, Research and Training centre.
15. Pushparani, Reddy.P.P. 1990 - Mental Retardation,P.P.Reddy at M/s Management systems consultants, 302, Darma Karam Road Ameer Pet,; Hyderabad-500 003.
16. Taly A.B.& Murali T., (2001). Foundations and Techniques in Neurological Rehabilitation. Bangalore; NIMHANS.
17. Usha Rani,P. 1988 - Down's Syndrome, Vijay Printers.
18. Werner David (1987). Disabled Village Children. U.S.A.; The Hesperian Foundation.
19. Latest references from the net.

JOURNAL :

The International Journal of the Creative Arts in Interdisciplinary Practice. **www.ijcaip.com**

Course Title	MAJOR CORE – 13 HEARING IMPAIRMENT – MULTIDISCIPLINARY ASPECTS (PRACTICALS)
Total Hours	90
Hours/Week	6
Code	P22RS3MCP13
Course Type	PRACTICALS
Credits	5
Marks	100

GENERAL OBJECTIVE:

To enable the students, understand and develop theoretical and practical knowledge and skills on screening, assessment and intervention of the hearing impaired.

Course Objectives:

CO No.	Course Objectives
CO-1	Understand and apply the methods of screening and case profiling of CWSN in primary schools and slums
CO-2	Describe and apply Audiological, language, speech, behavioural and occupational assessment
CO-3	Prepare, plan and implement lesson plans and teaching materials for various academic subjects. .
CO-4	Assess ,plan and implement language structures and prepare speech profile of the hearing impaired
CO-5	Assess speech errors, language problems and design and implement therapeutic intervention and individual /group teaching for the hearing impaired.

UNIT 1: Screening and Identification of Children with Hearing Impairment (15 Hrs)

- 1.1 Screening and Identification (School/slum)
- 1.2 Case profile/case study
- 1.3 Home visit and organizing a parent training
- 1.4 Participating in a camp
- 1.5 Awareness programme

Extra reading/ keywords: Screening, Case profile, Case review committee,

UNIT 2: Assessment and Therapeutic Intervention /Reporting and Follow-up (5 Hrs)

- 2.1 Audiological Assessment / Intervention
- 2.2 Language Assessment / Intervention
- 2.3 Speech Assessment / Intervention
- 2.4 Occupational Assessment / Intervention
- 2.5 Behavioural Assessment / Intervention

Extra reading/ keywords: Assessment, speech, occupational therapy, behaviour modification

UNIT 3: Educational Planning and Intervention (20 Hrs)

- 3.1 Formulating and Implementing IEP
- 3.2 Preparing Lesson Plan & Teaching Practice
- 3.3 Preparing Speech and Language Teaching Materials
- 3.4 Speech Book
- 3.5 Rhyme / Story / Figure/Concept book

Extra reading/ keyword: Lesson plan, didactic approach, multisensory method, IEP, Functional academics

UNIT 4: Speech and Language Assessment (20 Hrs)

- 4.1 Structure and Function of Speech Mechanism Hearing Screening Checklist
- 4.2 Language Input to the Child
- 4.3 Comprehension and Expression of Various Language Structures
- 4.4 Language Assessment tool
- 4.5 Profiling speech of children in the classroom and Articulation inventory

Extra reading/ keywords: Differences between Speech and language, Articulation, Receptive and Expressive language

UNIT 5: Evaluation of Speech/ Learning and Teaching Speech and Language (20 Hrs)

- 5.1 Evaluation/Classification of speech errors and deviations in respiration
- 5.2 Errors in phonation and supra-segmental/Errors in articulation
- 5.3 Methods for Teaching Speech and Speech teaching aids
- 5.4 Individual speech teaching/ Group speech Training
- 5.5 Preparing Language and Speech Therapy Plans.

Extra reading/ keywords: Prosody, Multi-sensory syllable unit approach. Auditory verbal Therapy, Associated phonemic unit approach

Note: Extra Reading / Keywords are only for Internal Testing (Seminar / Assignments)

Course Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Prepare screening report and case profile of CWSN in primary schools and slums	PSO 1	A , An
CO-2	Record Audiological, language, speech, behavioural and occupational Assessment	PSO 2	U

CO-3	Formulate and implement lesson plans and teaching materials for various academic subjects.	PSO 3	A
CO-4	Assess and document language and speech profile of the hearing impaired	PSO 4	An
CO-5	Design and implement therapeutic intervention and perform individual/group teaching for the hearing impaired	PSO 5	A , C

**PO – Programme Outcomes; CO – Course Outcome; R- Remember; U- Understand;
Ap – Apply; An – Analyse; E- Evaluate; C – Create**

REFERENCES:

1. Sadanand Singh & Kala. S. Singh, (1985). Phonetics - Principles and Practices, Baltimore - London - Tokyo; University Park Press.
2. Daniel Ling, (1984). Foundations of Spoken Language, Washington; Alexander Graham Bell Association for the Deaf.
3. Daniel Ling, (1987). Speech and the hearing impaired children, Theory & Practice. Washington; Alexander Graham Bell Association for the Deaf.
4. Donald R. Calvert & S. Richard Silverman, (1985). Speech & Deafness, Washington; Alexander Graham Bell Association for the Deaf.
5. Carol. G. Rousey, (1984). A Practical guide to Helping Children with Speech & Language Problems, Illinois; Charles. C. Thomas Publishers.
6. Irving, Harry & Marry Joe, (1990). Speech of the Hearing Impaired, research, Training & Personnel Preparation, Baltimore; University Park Press.
7. Crickmay, (1981). Speech Therapy, U.S.A.; Charles C. Thomas Publishers Limited.
8. Charles Van Piper, Robert L. Erickson, (1996). Speech Correction, An Introduction to Speech Pathology & Audiology (9th edition), U.S.A.; Allyn & Bacon,
9. Kalyani Mandke, Aruna N. Sangekar, (2001). B.Ed. Special Education Manual, Self Instruction Material, Block 3 and 4 : Teaching and Maintenance of intelligible speech.
10. Sadhana Relekar, Usha Dalvi & Anjali Kant (2006). Fundamentals of Speech and Speech Teaching. DSE(HI) Manual. New Delhi: Kaniska Publishers.

Course Title	MAJOR CORE – 14 PROJECT MANAGEMENT
Total Hours	90
Hours/Week	6 Hrs
Code	P22RS3MCT14
Course Type	Theory
Credits	5
Marks	100

General Objectives:

To understand the skills needed to develop skill in writing project proposals, project formulation, implementation and reporting

Course Objectives:

CO No.	Course Objectives
CO-1	Understand the responsibilities and challenges of Project Management and discuss the techniques of building and maintaining an effective team
CO-2	Analyze the various bottlenecks at each stage of project management
CO-3	Understand and evaluate the structure, function, roles and responsibilities of those involved in the programs and projects.
CO-4	Understand the skill in carefully monitoring and evaluating different projects.
CO-5	Understand and evaluate project interface, communication and documentation

UNIT 1: PROJECT & PROJECT MANAGEMENT (15 Hrs)

- 1.1 The Process Context, Inter personal and Behavioral Control & Organizational Context.
- 1.2 Defining Project Success
- 1.3 Responsibilities and Challenges of a Project Management
- 1.5 Building and Maintaining an Effective Team

Extra reading/ keywords: Stakeholder, Deliverables, Group Dynamics

UNIT 2: PROJECT EVOLUTION, MANNING AND ESTIMATION (20 Hrs)

- 2.1 Evolution of Project
- 2.2 Problem or Opportunity and Optimum solution
- 2.3 Preliminary Plan and Launching the Project
- 2.4 Project Planning
- 2.5 Estimating a Project

Extra reading/ keywords: Macro and Micro level Project Management

UNIT 3: PREPARING A DETAILED PROJECT

(20 Hrs)

- 3.1 Scope Management
- 3.2 Time Management
- 3.3 Cost Management and Fund Raising
- 3.4 Logical Framework Analysis (LFA)
- 3.5 Setting SMART Goals and SWOT Analysis

Extra reading/ keywords: Scope Creek, Work Breakdown Structure, Strategic cost management, Life Cycle Costing (LCC)

UNIT 4: RISK, UNCERTAINTY AND PROJECT EXECUTION

(20 Hrs)

- 4.1 Understanding and Managing risk and uncertainty
- 4.2 Analyzing and responding to threats
- 4.3 Project control – Objectives and Process
- 4.4 Gathering the right information
- 4.5 Analyzing and reacting to information.

Extra reading/ keywords: Project Audit, Control Scope

UNIT 5: PROJECT INTERFACE, COMMUNICATION AND DOCUMENTATION

(15 Hrs)

- 5.1 Project Interface and Stakeholders
- 5.2 Special Considerations in Interface Management
- 5.3 Project Management Configuration Plan
- 5.4 Communicating and Conducting Meeting
- 5.5 Key Elements in Successful Project Closure.

Extra reading/ keywords: Interface Coordination Plan, Project Review Meeting, Performance Review

Note: Extra Reading / Keywords are only for Internal Testing (Seminar / Assignments Course

Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Explain the responsibilities and challenges of Project Management	PSO 1	R, U
CO-2	Discuss the techniques needed in building and maintaining an effective team	PSO 2	R
CO-3	Discuss the various bottlenecks at each stage of project management	PSO 2	U
CO-4	Explain the structure, function of the stakeholders involved in the process of project management.	PSO 3	R
CO-5	Elaborate the roles and responsibilities of those involved in the process of program development and the building of projects.	PSO 4	An

CO-6	List and summarize the skills in carefully monitoring and evaluating different projects.	PSO 4	U
CO-7	Explain and summarize project interface, communication and documentation.	PSO 5	R, An

PO – Programme Outcomes; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create

PRACTICUM:

1. To develop a project proposal in the field of disability.
 - a) To undertake a Community Diagnosis and analyze the problem and need.
 - b) To develop a plan of action using Logical Frame Work Approach.
 - c) To prepare the calendar of activities for one year for the proposed project.
 - d) To prepare the budget for the selected project.
2. To appraise and evaluate a given project.

REFERENCES:

1. Mehta .D.S., (1983). Handbook of Disabled in India, Madras : Allied Publishers Private Ltd.
2. Naik, B.M., (1985). Project Management, New Delhi; Vikas Publishing House Pvt. Ltd.
3. Robin . D. Tribhuwan & S.R. Shevkari, (2000). How to write Funding Project Proposals, New Delhi; Discovery Publishing House.
4. Devendra Thakur, (1992). Project Formulation and Implementation, New Delhi; Deep & Deep Publications.
5. Fr. Fernando .S. Emmanuel, (1998). Project from Problems : Writing Skills on Project Proposals for Social Work Organisations.
6. Shaghil .M. & Mushtaque .M., (1993). Project Planning and Management, Jaipur; Printwell.
7. Young .L. Trevor, (1993). Planning Projects : 20 Steps to Effective Project Planning, New Delhi; Sterling Publishers Private Limited.
8. B.B. Goel, (1992). Project Management : A Development Perspective, New Delhi; Deep & Deep Publications.

Course Title	Non Major Elective - 2: FAMILY AND CHILD CARE
Total Hours	75
Hours/Week	5 Hrs Wk
Code	P15RS3NMT02
Course Type	Theory
Credits	3
Marks	100

GENERAL OBJECTIVE:

To understand the various issues in mate selection, marriage, family life, pregnancy, child birth and child care

Course Objectives:

CO No.	Course Objectives
CO-1	Remember true love in mate selection
CO-2	Understand the concept of love, marriage and strategies of successful marriage
CO-3	Understand marital adjustment strategies
CO-4	Understand the process, types and issues in pregnancy.
CO-5	Remember the various child care techniques.

UNIT I: LOVE AND LIKING (15 Hrs)

- 1.1 Meeting and Selecting
- 1.2 Mate Selection
- 1.3 Knowledge about Love
- 1.4 Determining the Love Story
- 1.5 Pre-Marital Counseling

Extra reading/ keywords: Love, Friendship, Characteristics of true love, types of love and lovers, Pre marital sex and issues, pre marital counselling.

UNIT II: MARRIAGE AND FAMILY (15 Hrs)

- 2.1 Myths and facts about marriage
- 2.2 Features of marriage
- 2.3 Love and marriage
- 2.4 Strategies to enhance a marriage
- 2.5 Sex in a committed relationship

Extra reading/ keywords: Marriage, types of marriage, issues in love, arrange and cross cultural marriage, sex education, sexual abuse

UNIT III: FAMILY AND MARITAL ADJUSTMENT (15 Hrs)

- 3.1 Marital adjustment
- 3.2 Resolving marital conflicts
- 3.3 Loveless marriage is lasting marriage
- 3.4 Maintaining intimacy throughout marriage
- 3.5 Divorce, Remarriage and Step – Parenting

Extra reading/ keywords: Adjustmental issues, stress in family life, marital conflicts, effects of broken families on children.

UNIT IV: PREGNANCY AND CARE DURING PREGNANCY (15 Hrs)

- 4.1 Pregnancy by choice - The facts about contraception
- 4.2 Waiting for a baby
- 4.3 Care of the mother-to-be
- 4.4 Husband's role during wife's confinement
- 4.5 Some common disorders in pregnancy

Extra reading/ keywords: Medicated conception, child growth, effects of mother's health on foetus, diabetes, anemia, high blood pressure, epilepsy in pregnancy and its effects.

UNIT V: CHILD BIRTH AND CARE (15 Hrs)

- 5.1 Child birth and types
- 5.2 Birth dangers to the baby
- 5.3 The new arrival
- 5.4 Taking care of new born
- 5.5 After delivery care of the mother

Extra reading/ keywords: Normal, caesarian, instrumental delivery, APGAR score, Newborn reflexes, diet for mother and new born baby.

Course Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Describes true love in mate selection	PSO 1	U
CO-2	Explains the strategies of successful marriage	PSO 2	U
CO-3	Enumerates the marital adjustment strategies	PSO 3	U
CO-4	Explains the process, types and issues in pregnancy.	PSO 4	U
CO-5	Discusses the various child care techniques.	PSO 5	U

PO – Programme Outcomes; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create

REFERENCES:

1. Personal adjustment; Schwebel Barocas, Reachman, Schwebel.
2. Mascarenhas (1986) Family life Education. Bangalore Centre for Research Education Service and Training for family life promotion.
3. Dr. Chandra M.D., D.C.H., Childhood diseases and child care; New Century book house private limited.
4. C.D. Williams, D.B. Telliffe; Mother and Child health. Delivering the services; The English language book society, Oxford University Press.
5. Devadas, R.P and Jaya.N (1984) A text book on Child Development, New Delhi; Marmillan India Ltd.
6. Santrock J.W. (1986) Life span Development. IONA : Wm c.Brown publishers.
7. Hurlock, E.B. (1981) Developmental Psychology, A life Span approach, New Delhi. Tata Mcgraw Hill Publication co., Ltd.

8. Bossard,(1996)Family Behaviour and Child Development, Agro industries publication, India.

Course Title	NON – MAJOR ELECTIVE 2 : PERSONALITY DEVELOPMENT
Total Hours	75
Hours/Week	5 Hrs Wk
Code	P15RS3NMT03
Course Type	Theory
Credits	3
Marks	100

GENERAL OBJECTIVE:

To understand the concept of personality development, neurological process and theories involved, assessment and skill development with regard to it.

Course Objectives:

CO No.	Course Objectives
CO-1	Remember the concept of personality and its development stages
CO-2	Understand the various physiological aspects involved in motivation and personality
CO-3	Remember various theories relevant to motivation and personality
CO-4	Understands different methods of assessment of personality
CO-5	Understands skill development areas and methods

UNIT 1: INTRODUCTION

(15Hrs)

- 1.1 Definitions of Motivation and Personality
- 1.2 Basic Concepts of motivation
- 1.3 Stages of personality development
- 1.4 Role of nervous system in motivation
- 1.5 Role of nervous system in formation of personality

Extra reading/ keywords: motivation, personality, CNS, PNS

UNIT 2: PHYSIOLOGICAL ASPECTS OF MOTIVATION AND PERSONALITY

(15Hrs)

- 2.1 Role of Nervous System in motivation and personality
- 2.2 Physiological approaches to drive
- 2.3 Hunger and thirst - regulatory drive
- 2.4 Eating disorders
- 2.5 Sex – non regulatory drive

Extra reading/ keywords: cerebrum, cerebellum, pituitary gland, anorexia nervosa, bulimia nervosa, Binge eating disorder.

UNIT 3: THEORIES OF MOTIVATION AND PERSONALITY (15 Hrs)

- 3.1 Psychoanalytic theories
- 3.2 Cognitive theories.
- 3.3 Theories of Need for Achievement.
- 3.4 Humanistic Theories
- 3.5 Factor Analytic theories

Extra reading/ keywords: Sigmund Freud, Carl Rogers, Maslow, achievement, Self-actualization, ego, Id, superego

UNIT 4: ASSESSMENT OF MOTIVATION AND PERSONALITY (10 Hrs)

- 4.1 Assessment of motivation
- 4.2 Behavioral observations and interviews
- 4.3 Projective techniques
- 4.4 Paper-pencil measures.
- 4.5 other measures

Extra reading/ keywords: paper pencil test, observation- direct and indirect, MMPI, CAT, CPI

UNIT 5: SKILL DEVELOPMENT (10 Hrs)

- 5.1 Study skills development
- 5.2 Oral presentation skills
- 5.3 Written communication skills
- 5.4 Assertiveness skill development
- 5.5 Techniques of creative thinking.

Extra reading/ keywords: SQ3R, tone, rhythm, intonation, pronunciation, assertiveness, novelty.

Note: Extra Reading / Keywords are only for Internal Testing (Seminar / Assignments)

Course Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Explains personality with its stages of development	PSO 1	R, U
CO-2	Discusses the role of nervous system in human motivation	PSO 2	R, U
CO-3	Describes the principles and theories of personality and motivation.	PSO 3	R.,U
CO-4	Explains the various methods of assessing personality	PSO 4	U, R
CO-5	Analyzes the various skills involved in personality development	PSO 5	U, An

PO – Programme Outcomes; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create

PRACTICAL (10 hours)

1. BMI and its application for obesity.
2. Measurement of holistic personality of self and others.

3. Workshop on Developing and shaping self-concept.
4. A workshop on Emotions and assertive behaviour.
5. Various measures to enhance creative thinking

REFERENCES:

1. Hall & Lindzey (eds) Theories of Personality Longman's Publication, Chennai.
2. Peck & Whitlow - Approaches to Personality, Essential Psychology Series, Penquin Publication, New Delhi.
3. Training in Management Skill by Philip L. Hunsaker, Prentice Hall, New Jersey 2001
4. Think like a Winner by Walter Doyle Staples. UBPSD, New Delhi 1996. 3. Psychology for Teachers by David Fontana, 3rd Ed. Palgrave: UK 1995
5. Modern Applied Psychology by Arnold P. Goldstein and Leonard Krasner. Pergamon Press, Inc. New York 1989. 5. Psychology Applied to Life and Work. 5th Ed. By Harry Hepner, Prentice-Hall: New Jersey, 1973.

Course Title	Self – Study Course - ABNORMAL PSYCHOLOGY
Total Hours	45 HOURS
Hours/Week	3 Hrs / Wk
Code	P17RS3SST01
Course Type	Theory
Credits	2
Marks	100

General Objectives:

To understand the concept of abnormal psychology, the causes, characteristics and therapeutic approaches of varied abnormal behaviors.

Course Objectives:

CO No.	Course Objectives
CO-1	Remember and understand the meaning, scope and definitions of abnormal psychology
CO-2	Understand and analyze the causes and characteristics of abnormal behavior
CO-3	Understand and analyze major patterns of maladaptive behavior. its causes, types, characteristics and treatment
CO-4	Understand, analyze the common patterns of abnormal behavior and evaluate its impact on day-to-day life
CO-5	Understand and analyze the varied treatment approaches and rehabilitation for abnormal behaviours

UNIT 1: INTRODUCTION (9 HOURS)

Meaning, scope and definitions of abnormal psychology

Extra reading/ keywords: *psychiatry, clinical psychology*

UNIT 2: CAUSES AND CHARACTERISTICS OF ABNORMAL BEHAVIOUR (9HOURS)

Biological / psychosocial / socio-cultural causes
 Characteristics of abnormal behavior

Extra reading/ keywords: *fraternal twins, designer babies, inadequate families, disrupted family, mothering.*

UNIT 3: MAJOR PATTERNS OF MALADAPTIVE BEHAVIOUR (9HOURS)

Schizophrenia, Neuroses, Sexual deviations.

Extra reading/ keywords: *Catatonia, paranoia, fugue reaction, Paraphilias, pedophilia, voyeurism, fetishism.*

UNIT 4: COMMON PATTERN OF ABNORMAL BEHAVIOUR (9 HOURS)

Alcoholism and Drug Abuse, criminal behavior and delinquency, psychosomatic disorders

Extra reading/ keywords: *withdrawal symptoms, juvenile, reformatory homes, de-addiction centres.*

UNIT 5: TREATMENT AND REHABILITATION OF ABNORMAL BEHAVIOUR (9 HOURS)

Biological, Psychosocial, Sociocultural approaches And Rehabilitation

Extra reading/ keywords: *chemotherapy, psychosurgery, tranquilizers, hallucinogenic, IST, ECT, Topectomy, thallectomy, de-sensitization.*

Course Outcomes:

CO No.	Course Outcomes	PSOs Addressed	Cognitive Level
CO-1	Explain the definitions, meaning and scope of abnormal psychology.	PSO 1	K1
CO-2	Discuss the varied causes and characteristics of abnormal behaviors	PSO 2	K2
CO-3	Describe the major patterns of maladaptive behavior problems in children with Special Needs.	PSO 3	K3
CO-4	Elaborate the common patterns of abnormal behavior. and recommend Therapeutic programs for children with special needs	PSO 4	K4
CO-5	Discuss and summarize the various treatment and rehabilitation methods for abnormal behavior	PSO 5	K5

**PO – Programme Outcomes; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply;
An – Analyze; E- Evaluate; C – Create**

PRACTICUM: (5 HOURS)

1. Visit to a Psychiatric Hospital.

2. Visit to a Juvenile Home.
3. Case study of a mentally ill person.

TEXT BOOKS:

1. Shanmugam, (1991). Abnormal Psychology.
2. S.K. Mangal, (1984). Abnormal Psychology
3. Coleman (1992). Abnormal Psychology. Paul Salmon, London

ESSENTIAL READING:

- Robert C. Carson & James N. Butcher (1992). Abnormal Psychology & Modern Life. Harper & Collins. New York.
- Davison Neale (1994). Abnormal Psychology. John Wiley & Sons. Canada.
- Irwing G. Sarason (1996). Abnormal Psychology – The Problem of Maladaptive Behaviour. Prentice Hall Ltd. New Delhi.
- Barlow & Durrard (1995). Abnormal Psychology. Brooks / Cole Publishing Company Ltd. U.S.A.
- Robert G. Meyer (1988). Abnormal Psychology. Paul Salmon, London.
- Rober W. White, Norman F. Watt (1981). The Abnormal Personality.
- Key to Psychiatry (1974). A text book for students M.I. Sainsbury.

JOURNAL:

Journal of Abnormal Psychology. APA Psy.net
Journal of Abnormal Psychology. Psy. Research.org.

HOLY CROSS COLLEGE (AUTONOMOUS) TIRUCHIRAPALLI – 2
DEPARTMENT OF AUDIOLOGY AND SPEECH LANGUAGE PATHOLOGY
II YEAR P.G. : SEMESTER – III
(From 2015 onwards)

**NON-MAJOR ELECTIVE – 2ASSISTIVE TECHNOLOGY FOR PERSONS WITH
SENSORY DISABILITIES (VI & HI)**

TOTAL HOURS: 75
HOURS: 5
CREDITS: 3

CODE: P15AS3NMT02
MARKS: 100

GENERAL OBJECTIVES:

To understand use of assistive devices & methods in the management of Children with Visual Impairment (CWVI) and Children with Hearing Impairment (CWHI) in schools/ clinics and explain the present and future technologies, research developments and evidence-based practices facilitating the education of CWVI and CWHI.

COURSE OBJECTIVES (CO) The students will be able:

1. Explain the relevance of technology for persons with visual impairment
2. Apply various devices to facilitate the education and employment of persons with visual impairment.
3. Describe various listening and Assistive devices in Audiological Management persons with Hearing Impairment.
4. Apply use of assistive technology Products and their application in the context of the Classroom for the Hearing Impairment.
5. Apply concepts related to Assistive Devices in Educational Management of CWVI and CWHI.

UNIT 1: Technological devices– traditional and modern for the education of the visually impaired

- 1.1 Writing technologies
- 1.2 Reading technologies
- 1.3 Technology for mathematics and science education
- 1.4 Braille production technologies
- 1.5 Critical analysis of the devices mentioned under Unit 1.1 to 1.4 in the context of the Indian situation

UNIT 2: Technologies for facilitating independent living for persons with visual impairment and employment-related technologies for the visually impaired

- 2.1 Mobility devices and fitness and health:
- 2.2 Recreational devices and home management devices:
- 2.3 Braille shorthand machine, Dictaphone and dictation software
- 2.4 Application of screen reading technologies for promoting/ diversifyin employment opportunities
- 2.5 Making workplaces and available workshop equipment and other machines accessible to persons with visual impairment– guidelines and principles

UNIT 3: Listening and assistive devices in audiological management

- 3.1 Assistive Technology for the Deaf and Hard of Hearing
- 3.2 Communication Support Technology
- 3.3 Assistive Technology Decision Making Guide-Student
- 3.4 Sensory Aids for Persons with Auditory Impairments
- 3.5 Assistive Technologies in the context of Work

UNIT 4: Assistive Technology Products and its application in the context of the Classroom

- 4.1 Assistive Technology Products for Persons with Hearing Impairment and Speech Impairment
- 4.2 Educational activities that can be aided by Assistive Technologies
- 4.3 Identifying Student Skills and Need for Assistive Technology
- 4.4 The context for Educational Applications
- 4.5 Hard and Soft Technologies for Educational Success

UNIT 5: Assistive devices in educational management

- 5.1 Impact of technology on education
- 5.2 Sources of availability and maintenance of technology devices
- 5.3 Mainstream technologies: Universal designs
- 5.4 Research & developments in educational technology
- 5.5 Evidence based practices

REFERENCES:

1. Andersson, C. (2014). Assistive Technology for the Hearing-impaired, Deaf and Deafblind. Springer, London.
2. Beattie, Rod G. (2001). Ethics in Deaf Education: The First Six Years. Academic Press Inc. New York.
3. Berg, F. (2008). Speech Development Guide for Children With Hearing Loss. San Diego: Plural Publishing.
4. Dillon, H. (2001). Hearing aids. Thieme Medical Publications, New York.
5. English, K. M. (2002). Counselling Children with Hearing Impairment and Their Families. Allyn and Bacon, Boston.
6. Huang, D. (1998). Speech skill build-up for children. Tiger DRS Inc. <http://www.drspeech.com>
7. Katz, J. (1978, 1985, 1994). Handbook of Clinical Audiology. (2nd, 3rd & 4th eds.). Williams and Wilkins, Baltimore.

8. Krumenacker, S. (2014). Hearing Aid Dispensing Training Manual. Plural Publishing. San Diego.
9. Kumar, K. L. (2009). Educational Technology: A Practical Textbook for Students, Teachers, Professionals and Trainers. New Age International, New Delhi.
10. Mani. M.N.G. (1997). Amazing Abacus. S.R.K. Vidyalaya Colony, Coimbatore.
11. Mathew, S. M. (2012). Technology for persons with hearing impairment. Status of Disability in India-2012. Rehabilitation Council of India, New Delhi.
12. Owens, R.E. (2012). Language development: An introduction (8th ed.). Pearson, Boston.
13. Proceedings: Asian Conference on Adaptive technologies for the Visually Impaired (2009). Asian Blind Union, New Delhi.
14. Rapp, W. H. (2014). Universal design for learning in action. Baltimore MD: Brooks
15. Sandlin, E. R. (1995). Handbook of hearing aid amplification: Theoretical and technical considerations. (vol. I). Singular Publishing Group, Inc. San Diego.
16. Singh, J.P. (2003). Technology for the Blind- Concept and Context, Kanishka Publication, New Delhi.
17. Stewart, D. A., & Kluwin, T.N. (2001). Teaching Deaf & Hard of Hearing Students: Content, Strategies & Curriculum. Allyn & Bacon, London.
18. Taraporevala, S., & D'Sylva, C. (2014). Equip Your World: A Synoptic View of Access Technology for the Visually Challenged. Joint Publication of NIVH, Dehradun & XRCVC, Mumbai.
19. Taylor, B., Mueller, H. G. (2011). Fitting and Dispensing Hearing Aids. Plural Publishing, San Diego.
20. Waldman, D., & Roush, J. (2010). Your child's Hearing Loss; A Guide for Parents. Plural Publishing, San Diego.
21. Albert .M. Cook & Susan M. Hussey. (2002) Assistive Technologies Principles and Practice, II Edition. Mosby. Missouri, Inc, USA.
22. Gray, Quatrano & Lieberman (1998), Designing and Using Assistive Technology, Maple Press Company, Fork, Pennsylvania.
23. Marion. A. Hersh & Michael A. Johnson (2003), Assistive Technology for the Hearing – Impaired, Deaf & Deaf Blind, Springer – Verlag Ltd., London.

