

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY,
Chennai – 32.

Regulations of the University

In exercise of the powers conferred by Section 44 of The Tamil Nadu Dr.M.G.R. Medical University, Chennai, Act 1987(Tamil Nadu Act 37 of 1987), the Standing Academic Board of the Tamil Nadu Dr. M.G.R Medical University, Chennai, hereby makes the following regulations:

1. SHORT TITLE AND COMMENCEMENT

These regulations shall be called “THE REGULATIONS FOR POST-GRADUATE DEGREE IN MASTER OF OCCUPATIONAL THERAPY COURSE (M.O.T) OF THE TAMIL NADU Dr. M.G.R MEDICAL UNIVERSITY, CHENNAI’.

They shall come into force from the academic year **2014-2015** session.

The regulation framed and syllabi are subject to modifications by the Standing Academic Board from time to time.

2. OVER ALL OBJECTIVES

The Master of Occupational Therapy course is intended to help prepare students for assumption of responsibility in positions of leadership in Occupational Therapy as:

1. Specialised practitioners
2. Researches
3. Teachers
4. Consultants
5. Supervisors
6. Administrators

3. ELIGIBILITY:

Candidates for admission to first year of the Master of Occupational Therapy Post- Graduate Degree course shall be required to have passed the Bachelor of Occupational Therapy Course of this University or any other University recognised as equivalent thereto by the authority of this University.

4. PHYSICAL FITNESS CERTIFICATE:

Every candidate before admission to the course shall submit to the Principal of the Institution a Certificate of Medical Fitness from an Authorised Medical Officer that the candidate is physically fit to undergo the academic course and does not suffer from any disability or contagious disease. Students with disability should produce the Disability Certificate issued by the duly constituted District Medical Board. Regulation & Syllabus for MOT 2014-12 15

5. ELIGIBILITY CERTIFICATE:

The candidate who has passed any qualifying examination as stated in Regulation No.3 above other than the Tamil Nadu Dr. MGR Medical University, Madurai Kamaraj University, University of Madras, Bharathiyar University, Bharathithasan University or any other University shall obtain an "Eligibility Certificate" from this University by remitting the prescribed fee along with the application form and required documents before seeking admission to anyone of the affiliated medical institutions. The application form is available in the University website (www.tnmmu.ac.in).

6. CUT-OFF DATES FOR ADMISSION TO EXAMINATIONS:

The Candidates admitted upto 31st May/31st October shall be registered to take up their First year examination after fulfillment of the regulations from 15th April/15th October *of the next year.

All kinds of admissions shall be completed on or before 31st May/31st October of the academic year. There shall not be any admissions after 31st May/31st October , even if seats are vacant.

*It was resolved XXXX111 S.A.B. Dated 19.12.2011.

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7. ENROLMENT OF CANDIDATES:

The Candidates admitted provisionally shall apply to the University for Enrolment within 7 days from the date of admission in a prescribed form which shall be down loaded from the University web site (www.tnmmu.ac.in).

The following documents are to be submitted along with the application form:

1. The provisional admission card issued by the College/ Selection Committee.
2. Eligibility Certificate (candidates who have obtained B.O.T Degree from Other Universities)
3. Prescribed fee

8. REGISTRATION:

A Candidate admitted into Master of Occupational Therapy Post-Graduate Degree course in any one of the affiliated institutions of The Tamil Nadu Dr.M.G.R . Medical University, Chennai, shall submit the prescribed application form for registration duly filled along with prescribed fee and declaration in the format, as in Annexure to the Controller of Examinations of this University through the affiliated institution within 60 days from the cut-off date prescribed for Master of Occupational Therapy Post Graduate Degree course for admission.

9. DURATION OF THE COURSE AND COURSE OF STUDY

- a. The period of certified study and training of the Master of Occupational Therapy Post- Graduate Degree course shall be Two Academic years.
- b. No exemption shall be given from this period of study and training for any other experience gained prior to the admission of the course.
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10. COMMENCEMENT OF THE COURSE:

Academic Year for Master of Occupational Therapy Post-Graduate Degree Course shall commence from the 2nd May/1st October of the year of admission.

*It was resolved XXXX111 S.A.B. Dated 19.12.2011.

11. CURRICULUM:

The curriculum and Syllabi for the course shall be as prescribed in the syllabi attached with these regulation and are subject to modification by the Standing Academic Board from time to time.

12. MEDIUM OF INSTRUCTION:

English shall be the medium of instruction for all the objects of study for examinations of the Master of Occupational Therapy Degree course.

13. WORKING DAYS IN AN ACADEMIC YEAR:

From the academic year **2011-2012** onwards each academic year shall consist of not less than **270** working days.*

Total No. of days in a year 365 days

No. of weekly off(Sundays)	-	52 days
No. of Government Holidays	-	22 days
No. of Holidays	-	21 days

95 days

Total No. of working days including

270 days

examination period

Each academic year shall consist of not less than 270 working days.

14. ATTENDANCE REQUIRED FOR ADMISSION TO EXAMINATION:

- a. No candidate shall be permitted to appear in any one of the parts of Master of Occupational Therapy Post Graduate Degree Course Examinations, unless he/she has attended the course in all the subjects for the prescribed period in an affiliated Institution recognised by this University and has produced the necessary certificate of study, attendance, progress and satisfactory conduct from the Head of the Institution.
- b. A candidate is required to acquire minimum of **85%** of attendance in both theory and practical separately in each subject before admission to the examination.
- c. A candidate lacking in the prescribed attendance and progress in any one subject in theory and practical wherever necessary in the first appearance shall not be permitted for admission to the entire examination.

15. CONDONATION FOR LACK OF ATTENDANCE:

There shall be no condonation of lack of attendance.

16. INTERNAL ASSESSMENT:

- 1) The following procedure shall come into force for the M.O.T Degree course with effect from August 2006 examination onwards:
 - i) Theory
 - ii) Practical / Clinical
 - iii) Viva voce

The Internal Assessment of the candidate has to be assessed on the above points and a report has to be submitted by the Institution once in three months as detailed below

- i) First Internal Assessment - At the end of 3 months (**for every year**)
- ii) Second Internal Assessment - At the end of 6 months (**for every year**)

iii) Third Internal Assessment - **Two** month prior to the University Examination
(for every year)

The average of the Theory, Practical / Oral should be added and aggregate must be taken and sent to the University as Internal Assessment Marks. In all the subjects obtaining minimum 50% of marks in Internal Assessment is mandatory to appear for the University Theory examinations.

17. COMMENCEMENT OF EXAMINATION:

April 15th / October 15th *

*It was resolved XXXX111 S.A.B. Dated 19.12.2011.

Theory examinations will not be held on Saturdays and Sundays. If the date of commencement of the examination falls on public holiday, the next working day will be the date of commencement of examinations.

18. SUBJECTS OF STUDY

I YEAR

Part –I

Common to all Branches:

Paper I- Research Methodology

Paper II- Education, Technology and Management in Occupational Therapy
Education and Practice.

Paper III- General Occupational Therapy.

II YEAR

Part – II

Common to all Branches

1. Clinical Speciality Paper I

2. Clinical speciality Paper II

3. Dissertation

19. a. Theory Examination pattern

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	Marks per Paper	Time
Two Essay question each 20 Marks	40 Marks	3 hrs
Ten short Notes-each 6 Marks	60 Marks	
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TOTAL	100 Marks	3.00 hrs
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19. B. PRACTICAL EXAMINATION PATTERN

I year (OT General Paper)

Long case - Detailed OT evaluation, goal setting and Management

Short case - To diagnose the patient with investigations

Spottings - to identify, various scales for evaluation, OT equipments, orthotics prosthesis

II Year

Clinical specialty Paper – I

Long case - For Discussion of differential diagnosis and conclusion of provisional diagnosis

Short case - Evaluation of performance components (higher cortical evaluation, voluntary control, sensory, balance, soft neurological signs etc...)

Clinical specialty Paper – II

2 short cases - Evaluation of Occupational performance area (ADL, Hand function, vocational, Home making evaluation)

Spottings - to identify, various standardized scales for evaluation, OT equipments, orthotics prosthesis (Relevant to their specialty)

20. DISSERTATION & EVALUATION OF DISSERTATION:

- a. The topic of the dissertation should be submitted at the end of six months. The candidate should also inform the name of the Guide for the dissertation to the University while submitting the dissertation topic.
- b. If any changes in the dissertation topic, the same has to be informed before the end of the first year course.
- c. The dissertation should be submitted three months in advance duly signed by the Professor of that branch and the same has to be forwarded to the Controller of Examination through the Dean or Principal of the College three month prior to the Examination.
- d. If the dissertation is not approved or rejected by the majority of the examiners, the results shall be withheld till the resubmitted dissertation is approved. (XXVIII S.A.B. dated 22.12.2004)
- e. If the candidate fails in the Written/Practical Examination, but his / her dissertations approved, the approval of the dissertation shall be carried over to the subsequent examinations.
- f. For Dissertation Marks 200, Viva-voce on Dissertation Marks 50 and IA/Presentation 50 – Minimum mark to pass 150.

21. MARKS QUALIFYING FOR A PASS:

50% of marks in the University Theory examination.

50% of marks in the University Practical examination

50% of marks in aggregate in Theory, Practical I.A & Oral taken together.

22. REVALUATION / RETOTALLING OF ANSWER PAPER:

There shall be no revaluation of the answer papers of failed candidates in any Post- Graduate examination. However, the failed candidate shall apply for retotalling.

23. NUMBER OF APPEARANCE (S):

A Candidate registered for Two years Master of Occupational Therapy Post-Graduate Degree course must qualify in the Examinations within four years of the date of his/her admission.

24. DURATION FOR COMPLETION OF THE COURSE OF STUDY:

The duration for the completion of the course shall be fixed as double the time of the course and the students have to pass within the said period otherwise they have to get fresh admission.

25. AWARD OF DISTINCTION AND UNIVERSITY RANKS:

Distinction will be awarded to successful candidates who secure 75% marks or more as a course aggregate in all the subjects without any failure.

The names of first Ten University rank holders at the end of the course without any failure will be published in the Tamil Nadu Govt. Gazette. The details also will be published in the University website.

26. RE-ADMISSION AFTER BREAK OF STUDY:

As per the University Common Regulations for readmission after break of study for all Courses. (As approved by the Standing Academic Board in its XXVI meeting held on 16.12.03).

27. MIGRATION / TRANSFER OF CANDIDATES:

Request for Migration / Transfer of candidates during the course of study from one affiliated college to another affiliated college of this University or from another University shall not be granted under any circumstances.

28. VACATION:

No Vacation for Post Graduate Degree Courses of this University.

29. AWARD OF MEDALS AND PRIZES:

The University shall award at its Convocation Medals and Prizes to outstanding candidates as and when instituted by the donors as per the schedule prescribed for the award.

30. AUTHORITY TO ISSUE TRANSCRIPT:

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The Controller of Examinations shall be the Authority for issuing Transcript of marks after remitting the prescribed fee of Rs. 1000/- (Rupees One Thousand only) or the fee as may be prescribed from time to time.

31. SCHEME OF EXAMINATIONS

YEAR ONE (Part – I):

S. No.	Subject	Internal Assessment (IA)		Theory		Practical		Viva	
		Max	Min	Max	Min	Max	Min	Max	Min
1.	Research Methodology	50	25	100	50	-	-	-	-
2.	Education, Teaching and Management in Occupational Therapy Education & Practice	50	25	100	50	-	-	-	-
3.	General Paper* (Occupational Therapy)	50	25	100	50	100	50	50	25

Includes Practical's for examination and should include clinical placement for Psychiatry, Physical Medicine and Rehabilitations (OR Medicine and Surgery), Community based Rehabilitation, Neurology, Orthopaedic and II and (including Burns and Plastic Surgery), Paediatrics and Cardio Respiratory.

YEAR TWO (Part – II)

S. No.	Subject	Internal Assessment (IA)		Theory		Practical		Viva	
		Max	Min	Max	Min	Max	Min	Max	Min
1.	Clinical Speciality Paper – I	50	25	100	50	100	50	50	25
2.	Clinical Speciality Paper - II	50	25	100	50	100	50	50	25

* Clinical placements can begin from Year One.

Branch: I - Adv. O.T in Rehabilitation Medicine

Branch: II - Adv. O.T in Mental Health

Branch: III - Adv. O.T in Paediatrics

Branch: IV - Adv. O.T in Neurology

Branch: V - Adv. O.T in Hand Rehabilitation

Branch: VI - Adv. O.T in Gerontology

Branch: VII - Adv. O.T in Orthopaedics

Branch: VI - Adv. O.T in Community based Rehabilitation.

Dissertation	200
Oral on Dissertation	50
IA/Presentation	50
Total	300
Passing Minimum	150

*It was resolved XXXX111 S.A.B. Dated 19.12.2011.

RECOMMENDED CLOCK HOURS OF INSTRUCTION FOR EACH SUBJECT

Sl.No	Subject	Theory Hours	Clinical / Practical Hours
1st YEAR			
1.	Research methodology	100	150
2.	Education, Teaching Technology and Management in Occupational Therapy education and Practice	200	100
3.	Teaching Practice	-	100
4.	General Paper (Occupational Therapy)	80	1340
5.	Seminar / case presentation / Journal	-	150
6.	Dissertation	-	100
2nd YEAR			
1.	Clinical specialty Paper - I	100	800
2.	Clinical specialty Paper – II	100	800
3.	Seminar / case presentation / Journal Review	-	150
4.	Dissertation	-	370

MOT SYLLABUS
I YEAR
PART - I
PAPER – I RESEARCH METHODOLOGY
COMMON TO ALL BRANCHES

THEORY – 100 Hrs
PRACTICAL – 150 Hrs

Overall Objectives:

1. The student is able to apply the basic concepts of statistics and principle of scientific enquiry in planning and evaluating the results of Occupational Therapy practice.
2. Participate in and or conduct descriptive, exploratory and survey studies in Occupational Therapy.
3. Evaluate and apply the result of research studies in health and related fields of practice. (Four copies of the dissertation shall be submitted four months, before final examination)

Behavioural objects:

The student is able to –

1. Identify and state relevant assumptions , hypothesis.
2. Select and analyse the literature for facts and theory relating to the problem.
3. Critique Occupational Therapy studies.
4. Design a study identifying a population and methods of selection of the sample required.
5. Construct instruments for eliciting data through questioning, observation and measurement methods and techniques.
6. Quantify, analyse, describe and interpret data.
7. Present data in appropriate tables, graphs and diagrams.
8. Calculate averages, variation, linear correlation and regression.

9. Calculate confidence intervals and simple tests of significance. Using normal X and X^2 distribution.
10. Compute commonly used vital and health statistics and estimate population using arithmetic progression methods.
11. Make recommendations based on the findings for application to Occupational Therapy and further research.
12. Prepare and write a scientific report of the study.

PART A (THEORY)

COURSE CONTENT:

- UNIT 1 Introduction to – uses of statistical methods in Occupational Therapy – Measurement, measurement scales, variable and their measurement – Symbolising data and operations.
- UNIT 2 Describe methods of presenting statistical data – Learn methods of tabulations; calculation of central tendency and dispersion; linear regression and correlation, presentation of data in diagrammatic and graphic form.
- UNIT 3 Learn probability and sampling including probability as a mathematical system, population and samples; sampling distribution, sampling methods, surveys in research.
- UNIT 4 Learn vital and health statistics including – point and interval estimation for proportion mean; hypothesis testing, sample tests of significance; inferential techniques normal $1, x^2$.
- UNIT 5 Understand and use of vital and health statistics in the practice of Occupational Therapy. This includes learning sources and methods of collection and recording and computation of commonly used vital and health statistics and estimate population using arithmetic progression method.

- UNIT 6 Learn research process and methods including - overviews of scientific methods steps in the research process selection and statement of problem – formulation of Hypothesis – basic principles and methods of research design.
- UNIT 7 Learn data collection methods, scales and techniques of psychological measures. Learn reliability, validity and criteria of assessing – measuring the tools; analysis and interpretation of research data, role of computers.
- UNIT 8 History of Occupational Therapy research before 1960 & 1960 – present.
- UNIT 9 Critique of OT studies – Historical studies – review the instruments and tools used – Review studies pertaining to Occupational Therapy education – Occupational Therapy administration and Occupational Therapy Practice.
- UNIT 10 Qualitative Research Methods:
- Developing the instrument (Delphi technique)
 - Focus groups
 - Independent interview
 - Key informant interview
- UNIT 11 Formation of scales, tools & Questionnaires or Batteries:
Standardization of scales, tools & Questionnaires or Batteries:

PART – B:

Practical application of research process.

- Selection and statement of problem & hypothesis
- Review of literature
- Selection of research approach
- Selection of data gathering and developing the data gathering instrument.
- Developing data analysis plan.
- Selection of sample.

- Identifying assumptions and limitations of the study
- Designing the data gathering plan.
- Pilot study.

- UNIT 1 Conducting the study – implementing the data gathering plan, implementing the data analysis plan.
- UNIT 2 Preparing the research report – writing the report – documenting findings – presentation of study for discussion.
- UNIT 3 Demonstrate an understanding of the process of locating and securing grants and how grants can serve as a fiscal resource for scholarly activities

I YEAR M.O.T. SYLLABUS

PAPER – II: COMMON TO ALL BRANCHES

EDUCATION, TEACHING TECHNOLOGY AND MANAGEMENT IN OCCUPATIONAL THERAPY EDUCATION AND PRACTICE

Methods of instructions: Lectures, Seminars

Theory – 200 hours
Practical – 100 hours

INSTRUCTION HOURS – GENERAL SUBJECTS

Education and Teaching technology	100 hours
Management in OT Education & Practice	100 hours

SECTION – A **EDUCATION AND TEACHING TECHNOLOGY**

OVER ALL OBJECTIVES:

To help students assume teaching and leadership positions in Occupational Therapy education programme.

BEHAVIOURAL OBJECTIVES:

After undergoing the course students should be able to:

- Define and explain the concept of educational technology, the major educational theories and illustrate their applications in curriculum development and teaching
- Explain concepts and principles of curriculum development, teaching-learning process and evaluation.
- Describe and explain principles of guidance and counseling and the responsibility of the school for providing a suitable environment for learning
- Design a curriculum for a basic Occupational Therapy courses

UNIT – I

EDUCATIONAL TECHNOLOGY AND PHILOSOPHY OF EDUCATION:

- Meaning and concept of educational technology, Technology of education and Technology in education.
- Education and philosophy, philosophical concepts of Idealism, pragmatism, Naturalism, Existentialism, progressivism and reconstructionism
- Philosophies of education in India – Contributions of Swami Vivekananda, Rabindranath Tagore and Mahatma Gandhi to Indian Philosophies
- Globalization and current trends and issues in education

UNIT II

PSYCHOLOGY OF TEACHING – LEARNING PROCESS:

- Concepts of teaching and learning
- Psychology of education-theories of learning – and their significance
- Pavlov’s classical conditioning
- Thorndike theory of learning – Laws of learning
- Skinner’s Theory of Operant conditioning
- Gestalt Theory of learning, Hull’s need reduction theory
- Dynamics of Behaviour
- Motivational process of learning
- Perception and Individual difference
- Intelligence and personality
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UNIT – III

CURRICULUM DEVELOPMENT:

- Definition, curriculum and syllabus
- Curriculum determinants, process and steps in curriculum development
- Curriculum models
- Formation of philosophy, objective selection and organization of learning experiences
- Master plan of courses – Master rotation plan - Individual rotation plan
- Course plan – unit plan – lesson plan
- Hospital and community areas for clinical assignments

UNIT –IV

CURRICULUM EVALUATION:

- Process of curriculum change, role of students faculty administrations statutory
- bodies and other stake holders.

- Current trends in curriculum planning
- Faculty development programmes, Development of personnel in Occupational
- Therapy services.
- Input-process-output evaluation.

UNIT – V

TEACHING AND LEARNING PROCESS

- Concepts of teaching and learning- Relationship between teaching and learning
- Educational aims and objectives – domains-writing of educational objectives
- Competency Based Education (CBE)
- Problem based learning (PBL)
- Instructional media and methods-selection and use of media in education –print and non-print media
- Developing learning resource material using different media
- Instruction aids-types-uses-preparation-utilization
- Teacher’s role in managing instructional aids – projected and non-projected aids
- Multimedia, video-teleconferencing

UNIT VI

INSTRUCTIONAL STRATEGIES:

(A brief account of strategies and their merits and demerits)

- Lecture
- Discussion
- Demonstration
- Simulation
- Laboratory methods
- Seminar – panel discussion, symposium and workshop

- Problem based learning (PBL)
- Project work
- Role play
- Clinical teaching methods
- Self-directed learning (SDL)
- Programmed instruction
- Microteaching
- Computer assisted instruction(CAI)- Computer assisted learning (CAL)

UNIT – VII

MEASUREMENTS AND EVALUATION IN EDUCATION:

- Concept of evaluation- Types of evaluation – formative, summative, diagnostic placement
- Internal assessment and external examination – advantages and disadvantages
- Criterion and norm-referenced evaluation
- Standardized and non-standardized test
- Desirable qualities of tests – objectivity, validity, reliability, usability
- Construction of tests - Blueprint
- Essay-Short answer questions and multiple choice questions
- Item analysis – cumulative evaluation

UNIT – VIII

TECHNIQUES OF ASSESSMENT OF NON-COGNITIVE DOMAINS:

- Tests of intelligence, aptitude, attitude and personality
- Sociometry anecdotal record, Rating scales, Check list and Socio – economic status scale
- Question bank preparation
- Validation, administering a test, scoring, grading versus marks, scoring essay test

- Credit System and online testing

UNIT IX

GUIDANCE AND COUNSELING:

- Philosophy, concept, principles and need
- Difference between guidance and counseling services
- Types of guidance and counseling services – Diagnostic and remedial
- Techniques of counseling – Interview and case study
- Characteristics of Counsellor problems in counseling
- Professional preparation and training for counselling

UNIT – X

CLINICAL EDUCATION

- Levels and purposes
- Roles and responsibilities
- Transition from students to professional
- Field work – interview
- Field work – evaluation
- Supervisory relationship
- Methods of clinical education.

Part – B Practicals:

- 1) Prepare a philosophy, overall and behavioural objectives for a basic Occupational Therapy programme.
- 2) Design a curriculum for a basic Occupational Therapy Programme.
- 3) Plan a unit of instruction for a course in a selected speciality in Occupational Therapy.
- 4) Prepare 5 lesson plans and conduct 5 supervised classes.

- 5) Construct one written objectives type test for a lesion you have taken.
- 6) Prepare a plan for evaluating O.T. students.

SECTION B

Management in Occupational Therapy Education And Practice

PART A: Management in Occupational Therapy

Course Objectives:

At the end of the course the student is able to –

1. Describe philosophies, concepts, theories, principles, and current trends related to management process.
2. Analyse the components of management.
3. Assess the behavior of an individual in leadership position and identify leadership styles.
4. Describe organizational patterns, theory and structure.
5. Explain methods and principles of decision making
6. Describe the environmental variables affecting management
7. Appreciate and apply the changing process
8. Analyse the legal issues in management.
9. Prepare budget for an organization.
10. Recognise the importance of creating and innovation in management.

Course Content:

UNIT 1 Philosophies, theories and principles of management.
Review basic components planning; organizing; staffing; directing; co-ordination; budgets; skill of a manager, definitions of management.

UNIT 2 Concepts of management.
Current trends in management
Human resource development.
Developmental cycle.
What do we want to influence?
Determining maturing.
Time and development cycle.

Changing maturity through behavior modification.
Building effective leadership.
Increasing effectiveness.
Constructive discipline.

UNIT 3 Organisational patterns
Nature and purpose
Organisational structure
Organisational theory
Job analysis – job descriptions
Authority and power
Recruitment and selection.

UNIT 4 Leadership and supervisor
The art of leadership
Qualities of a leader
Leadership as an influence process
Theories of leadership
The knack of giving instructions
How and when to discipline
Supervising older workers
Supervising office workers
Group dynamics
Human relations and the individual and work groups
Attitudes and morale
Public relations
Managing conflict, change & stress
Planning work schedule
Improving work methods
Maintaining equipment and facilities

UNIT 5 Decision making
Types of decisions
Process of decision making
Programmed and non-programmed decision
Personal qualities for effective decision making
Judging effectiveness of decision

Group decisions
Conflict management

UNIT 6 Environment and environment variables
Theories
Motivation hygiene theory
Theory X and Theory Y
Transactional analysis
Ego states, a healthy personality
Life position, transaction between people
Strokes, psychological game analysis
Hawthorn studies
Increasing international competence

UNIT 7 Motivation
Theory of motivation
Motivated and non motivated behavior in organizations.
Drives, needs and motives
Job satisfaction
Motivation research
Determinants of jobs satisfaction, performance & organizational effectiveness
Work commitment.

UNIT 8 Effective communication
Principles
Interpersonal & group
Reinforcement & feed backs
Communication strategies
Effective conference
Direction giving conference
Patient centered conference
Reporting conference

UNIT 9 Planning and Implementing change
Diagnosis of problem and need for change
Planning and implementation of change

Organizational developments
Impact of change on total system

- UNIT 10 Legal and ethical aspects in practice, regulating mechanism, quality assurance.
- UNIT 11 Fiscal management
 Cost accounting
 Budgeting
 Material management
- UNIT 12 Creativity in management
- UNIT 13 Managing stress and work
- UNIT 14 Performance evaluation
 Purpose in performance evaluation
 Problems in performance evaluation
 Self appraisals
 Peer review.

PART – B O.T EDUCATION AND PRACTICE

Course Objectives:

1. Apply concepts and management principles in administration of an Occupational Therapy Programme.
2. Examine the current trends in Occupational Therapy education.
3. Role of an Occupational Therapy leader in an academic setting.
4. Determining staffing requirement according to prescribed standards of WFOT and University.
5. Apply sound management principles in relation to the welfare of the students faculty.
6. Report on current literature related to O.T Education Programme.

COURSE CONTENT:

- UNIT 1 Role of a leader of an educational programme
Role of an OT as a manager in Occupational Therapy department
- UNIT 2 Administration of the curriculum
Administrative responsibilities for development of the curriculum
Planning clinical rotation
Evaluation of the education programme
Administrative responsibilities within the OT department
- UNIT 3 Students management
Recruitment and selection of students
Student personnel services
Student associations
Guidance and counseling programme
Hostel management.
- UNIT 4 Faculty
Recruitment and selection of required number of faculty
Promoting faculty competence
Faculty welfare.
- UNIT 5 Budget
Preparing a budget for an O.T College
- UNIT 6 Physical facilities
Minimum requirements for schools / colleges
Class room and clinical facility
Library facility
Office management – Reports & records.
- UNIT 7 Professional Practice**
- Resources & systems
- Human resources
- Financial resources

- **Information resources**
- **Self Management**
- **Effective Practice**
- **Managing change**

PAPER – III: COMMON TO ALL BRANCHES

GENERAL PAPER (OCCUPATIONAL THERAPY)

**Course Hours: Theory: 80 Hrs
Practical: 1340 Hrs**

Course Description:

This course will help the students to review basic concepts, process and skills of occupational therapy and identify developing aspects of the profession.

Course Objectives:

The objective of this course is that after the student will be able to expand their understanding of the purpose and potential of O.T and recent trends in O.T management.

Course Content:

Section – A

- UNIT 1 The science of Occupation
 Definition of the science
 Subsystems of occupation
UNIT 2 Frames of reference of occupational therapy

Sub Unit:

- a. Behavioural Frame of reference (FOR)
- b. Biomechanical FOR
- c. Cognitive disability FOR
- d. Developmental FOR
- e. Neurodevelopmental FOR including other neurophysiological approaches including Rood's, motor relearning programme, PNF
- f. Sensory integrative FOR

- g. Models of Human Occupation FOR
- h. Rehabilitation FOR
- i. Psychodynamic FOR
- j. Spatiotemporal adaptation FOR
- k. Occupational adaptation – an integrative
- l. Affolters technique
- m. Task oriented approach
- n. **Cognitive behavioural FOR**

UNIT 3 The patients world and its impact on therapy -
Values,beliefs,spirituality,body functions and body structure

UNIT 4 Self maintenance and independence -- ***Provide training in education and training of the caregiver, family ,significant others to facilitate skills in areas of occupation as well as prevention,health maintainence,health promotion and safety.selfcare,self-management ,health management and maintainence -***

UNIT 5 Influence of family on therapy – caring for the care giver, ***education and training of the caregiver,family ,significant others to facilitate skills in areas of occupation as well as prevention,health maintainence,health promotion and safety.***

UNIT 6 Computer application in Occupational Therapy

UNIT 7 Technology and Occupational Therapy. - ***Select and teach compensatory strategies such, as use of technology ,adaptations to the environment, Biofeed back, Functional Electrical Stimulation , Environmental controls and Assistive Technology, HAAT and HETI Model***

UNIT 8 Developing aspects of the profession

- Evidence based practice,
- **Client centered practice**
- Hospice care
- Occupational Therapy in Sports
- Forensic Occupational Therapy
- Industrial Rehabilitation and Ergonomics with relation to industrial rehabilitation and environmental adaptation.

UNIT 9 **Skills For Practice**

- **Reasoning and reflexion in clinical analysis and application**
- **Gathering and analyzing information**
- **Planning and problem solving**
- **identifying suitable solutions**
- **Evaluation of outcome**

UNIT 10 Community Based Rehabilitation.

Section - B

UNIT 1 Knowledge of Medical, Surgical, Paediatrics, Psychiatric and Cardiac conditions relevant to Occupational Therapy.

UNIT 2 Applied Anatomy and Applied Physiology, Pathophysiology of the above mentioned conditions. Basic outline of the investigative procedures as relevant to Occupational Therapy practice. Basic knowledge of the pharmacological agents used in the treatment of the above mentioned conditions that influence functional performance.

UNIT 3 Occupational Therapy management * of the above conditions

UNIT 4 **Planning the ongoing process of OT services**

Modify the intervention based on frequent monitoring and reassessment of the effect of occupational therapy services.

Grade and adapt the environment, tools, materials, occupations, and interventions to reflect the progress of clients.

Refer to specialists (both internal and external to the profession) for consultation and intervention.

Plan for discharge, based on the client's current status, available resources, recommendations for environmental adaptations, suggesting home programme

Evaluate practice outcomes and report evaluation results , developing a summary of outcomes and planning to terminate occupational therapy services.

Document OT services in written, oral, and non-verbal communication with the client, family, significant others, colleagues, health providers, and the public in a professionally accepted manner including need for OT

UNIT 5 *Context Of Service Delivery*

Address the various contexts of health care as they relate to OT practice and how they influence occupational therapy practice.

Identify opportunities in emerging practice areas. Models of service delivery, and their potential effect on the practice of occupational therapy.

Appreciate the influence of international occupational therapy contributions to e

Seminar / Case presentation / Journal Review

Visit to Vocational Rehabilitation center – 1 week

* Includes practical's for examination and should include clinical placements for Psychiatry,

Physical Medicine and Rehabilitations (OR Medicine and Surgery), Community based Rehabilitation, Neurology, Orthopaedic and Hand (including Burns and Plastic surgery), Paediatrics and Cardio Respiratory.

BRANCH – I

PAPTER – I

**ADVANCED OCCUPATIONAL THERAPY IN REHABILITATION
MEDICINE**

**Course Hours: Theory: 100 Hrs
Practical: 800 hrs**

Theory & Practical

Course Description:

This course covers the theoretical aspects of rehabilitation and occupational therapy approaches to disabled clients; evaluation of disability and effects of disability on human performance.

Course Objectives:

The student should develop an understanding of the

- Principles of rehabilitation and philosophy
- Preventive aspects
- Theoretical approaches to disability in occupational therapy.
- Evaluation of disability
- Evaluation of the impact of disability on various aspects of human performance (Rehabilitative aspects of chronic psychiatric disorders)

Course Content:

- UNIT 1 The concept of Rehabilitation
 History of rehabilitation medicine
 Philosophy and principles of rehabilitation
- UNIT 2 Health promotion and disease prevention in rehabilitation
- UNIT 3 Psychosocial aspects of physical rehabilitation
- UNIT 4 Clinical decision making – planning effective treatments
 - Collect data

- Set goals and priorities
- Formulation and implementation of treatment plan
- Evaluating treatment outcome

- UNIT 5 Influence of values on patient care
- Values and valuing
 - Code of ethics
 - Influence of values on the primary goal of patient
- UNIT 6 Sensory assessment
- UNIT 7 Motor control assessment
- UNIT 8 Electrodiagnostic evaluation of the peripheral nervous system,
central nervous system.
- UNIT 9 Upper extremity and Lower extremity motion analysis
- UNIT 10 unctional assessment
- UNIT 11 Environmental assessment
- UNIT 12 Assessment of cognitive and perceptual deficits
- UNIT 13 Work assessment including prevocational assessment; work
hardening
- UNIT 14 Orthotic assessment
- UNIT 15 Prosthetic assessment
- UNIT 16 Disability evaluation
- UNIT 17 Major theoretical approaches
- Biomechanical
 - Neurophysiological
 - Rehabilitative.

UNIT 18 The Rehabilitation team
UNIT 19 Rehabilitation in mental health

UNIT 20 Evaluating functional outcomes in rehabilitation.

Seminar / Case presentation / Journal Review

BRANCH – I

PAPER – II

ADVANCED OCCUPATIONAL THERAPY IN REHABILITATION

Course hours: Theory: 100 hrs

Practical: 800 Hrs

Theory & Practical

Course Description:

The course covers rehabilitative aspects of various conditions – planning and implementation of treatment.

Course Objectives:

The course helps the student to gain knowledge about using a rehabilitative approach in various conditions. Identify developing aspects of O.T in rehabilitation.

Course Contents:

- UNIT 1 Strategies to improve motor control and motor learning
- UNIT 2 Treatment planning strategies for musculoskeletal deficits.
- UNIT 3 Treatment strategies for cognitive perceptual deficits.
- UNIT 4 Assistive technology
- UNIT 5 Counselling skills in Occupational Therapy.
- UNIT 6 Psychosocial intervention in Rehabilitation
- UNIT 7 Work programs including ergonomics and work study.
- UNIT 8 Functional neuromuscular stimulation for the upper extremity.
- UNIT 9 Group process

- UNIT 10 Biofeedback
- UNIT 11 Prosthetic management: Upper and Lower extremity
- UNIT 12 Orthotic management:
Spinal and Lower extremity: Indications and training.
Upper extremity: Prescription, formation, indications and training
- UNIT 13 **CBR (Community Based Rehabilitation)**
- UNIT 14 Pain management in Occupational Therapy
- UNIT 15 Environmental adaptation
- UNIT 16 Wheelchair prescription
- UNIT 17 Rehabilitation in psychiatric conditions
- UNIT 18 Rehabilitation of the paediatric client
- UNIT 19 Rehabilitation of the Geriatric patient
- UNIT 20 Rehabilitation of the stroke patient
- UNIT 21 Rehabilitation of the patient with head injury
- UNIT 22 Rehabilitation of a patient with multiple sclerosis
- UNIT 23 Rehabilitation of a patient with cancer
- UNIT 24 Rehabilitation of a patient with burns
- UNIT 25 Rehabilitation of a patient with traumatic spinal cord injury; surgical and medical conditions of the spine.
- UNIT 26 Rehabilitation of a patient with arthritis and connective tissue disease
- UNIT 27 Rehabilitation of a patient with cardiac and pulmonary dysfunction
- UNIT 28 Occupational Therapy in HIV and AIDS
- UNIT 29 Rehabilitation in specialized units including hospice, half way homes, training workshops and trial homes.
- UNIT 30 Community resettlement programs
- UNIT 31 Rehabilitation of a patient with low back pain.
- UNIT 32 **Rehabilitation of a patient with hand injuries**

Seminar / case presentation / Journal presentation

BRANCH – II
ADVANCED OCCUPATIONAL THERAPY IN MENTAL HEALTH
PAPER – I

Course hours: Theory: 100 Hrs

Practical: 800 Hrs

Theory & Practical

Course Description:

This course provides a theoretical background for Occupational Therapy Practice in Mental Health. It also includes the frames of reference for Occupational Therapy Management; Occupational Therapy Process, Media and context of Occupational Therapy Practice.

COURSE OBJECTIVE:

- The course helps the students to be able to -
- Review theory of Psychological process
 - Develop a deeper understanding of Occupational Therapy processes.
 - Context & Media in Mental Health
 - Have an in depth knowledge of frame of reference in Psychiatric Occupational Therapy
 - Understand preventive measures in Psychiatry
 - Identify futuristic trends in Occupational Therapy Practice.

Course Content:

UNIT 01 The Normal Developmental Process from infancy to old age

UNIT 02 Ability testing & intelligence

UNIT 03 Motivation

UNIT 04 Emotions

UNIT 05 Personality

UNIT 06 Learning

Regulation & Syllabus for MOT 2014-15

UNIT 07 Thinking

UNIT 08 Memory

UNIT 09 Perception and awareness

UNIT 10 Conflict, adjustment & mental health

UNIT 11 Social Psychology

UNIT 12 Cognitive Psychology

UNIT 13 Humanistic Psychology

UNIT 14 Neuro-psychology

Lobes function and dysfunction, Neuropeptide Biology & Regulation,
Monoamine Neurotransmitter.

UNIT 15 Family involvement in Psychiatric Occupational Therapy.

UNIT 16 Patient – therapist relationship.

UNIT 17 Conscious use of self definition, Components parts, Common issues &
responses.

UNIT 18 Interactional skills and Occupational Therapy

UNIT 19 Counselling skills in Occupational Therapy

UNIT 20 Stress and the vulnerable personality

UNIT 21 History of Occupational Therapy in Mental Health

UNIT 22 The Philosophical and theoretical basis of Occupational Therapy in
Mental Health.

UNIT 23 The Occupational Therapy process Models of Practice Assessment,
Treatment Planning & Implementation

UNIT 24 The context of Occupational Theory

Residential Setting

Day service

Sheltered workshop

Half –way home

Community

UNIT 25 The Occupational Therapy media

UNIT 26 Frames of reference (FOR)

- a. Acquisitional FOR
- b. Cognitive disability FOR
- c. Developmental FOR
- d. Model of Human Occupation
- e. Psychodynamic
- f. Sensory Integrative
- g. Behavioural frame of reference
- h. **Cognitive behavioural FOR**

UNIT 27 Methods of evaluation

- History taking
- Interview
- Behaviour observation
- Task history
- Functional assessment
- Questionnaires
- Self report
- Performance based test
- Standardized & non standardized tests

- Projective technique - **expressive media used in OT**

UNIT 28 Preventive aspects of Psychiatry

UNIT 29 Futuristic trends.

Seminar / Case presentation / Journal Review

BRANCH – II
ADVANCED OCCUPATIONAL THERAPY IN MENTAL HEALTH
PAPER – II

Course hours: Theory: 100 Hrs

Practical: 800 Hrs

Theory & Practical

Course Description:

This course covers the classification of Mental disorders & describes various clinical syndromes, medical management and Occupational Therapy approaches used.

Course Objectives:

The course assists the student in

- Classifying Psychiatric disorders
- Describing clinical Psychiatric syndrome in adults, adolescents & children
- Demonstrate knowledge and skill in Occupational therapy in Psychiatric syndrome

Course Content:

UNIT 1 Assessment of Psychiatric patient

UNIT 2 Criteria classification and definition of Psychiatric disorders

UNIT 3 Psychopathology of Psychiatric disorders

UNIT 4 Symptoms of mental illness.

Disturbance of consciousness

b. Disturbance of reasoning and judgment

c. Disturbance of memory

- d. Disturbance of thought and perception
- e. Disturbance of vision
- f. Disturbance of motor behavior
- g. Disturbance of speech
- h. Disturbance of affect

UNIT 5 Description of the various clinical syndromes including Epidemiology, Etiology, clinical features, course, treatment, prognosis and Occupational Therapy approaches in the following syndromes:

Section – A: Psychiatric disorders in Adults:

- a. Neuro Psychiatric aspects of CVA, Tumor, Head Trauma, Multiple sclerosis, headache, demyelinating disorders, infectious disorders endocrine disorders and Epilepsy.
- b. Dementia, Delirium, amnestic and other cognitive disorders due to a general medical condition
- c. Alcohol dependence syndrome
- d. Substance – Related disorder
- e. Schizophrenia
- f. Affective disorders
- g. Other Psychotic disorders-
 - Schizo-affective disorders
 - Delusional disorder
 - Postpartum psychiatric syndrome
- h. Anxiety disorder-
 - Panic disorder and agoraphobia
 - Specific phobia & social phobia
 - Obsessive- Compulsive disorders, stress disorder.
 - Post traumatic stress disorder
 - Generalized anxiety disorder
- i. Somatoform disorder
- j. Factitious disorder
- k. Dissociative disorder
- l. Normal human sexuality, sexual and gender identity disorder
- m. Eating disorder
- n. Sleep disorder

- o. Impulse-control disorder
- p. Personality disorder
- q. Forensic psychiatry
- r. Writer's cramp
- s. HIV associated Psychiatric problems
- t. Suicide prevention and management**

Section –B: Child Psychiatry:

- a. Mental retardation
- b. Specific Learning disability
- c. Pervasive developmental disorder
- d. Disruptive behaviour disorder
- e. Tic disorder
- f. Elimination disorder
- g. Mood disorder and suicide
- h. Schizophrenia with childhood onset
- i. Child abuse
- j. Children's reaction to illness, surgery and hospitalization
- k. Antisocial behaviour

l. Eating disorder, sleeping disorder, habit disorders

- m. Psychiatric aspects of HIV in childhood
- n. Identity problem and border line disorder
- o. Other disorders of infancy & childhood
 - Separation anxiety disorder
 - Selective mutism
 - Reactive attachment disorder
 - Stereotyped movement disorder
- p. Delinquency
- q. Substance abuse

r. Sensory processing disorders

Section – C: Geriatric Psychiatry

- a. Psychiatric disorders of late life
- b. Alzheimer's disease
- c. Multi – infarct dementia

- d. Pick's disease
- e. Mood disorders
- f. Schizophrenia
- g. Anxiety
- h. Personality disorders
- i. Drug and Alcohol abuse.

UNIT6. Standardized scales and tools to be used for evaluation –any two in each of the following

- 1. The Cognitive Assessment ,MSE,***
- 2. Scale to assess rate of symptoms in psychotic and neurotic conditions i.e depression ,anxiety, schizophrenic symptoms,***
- 3. Psychosocial Assessment Tool ,Work behaviour***
- 4. Quality of Life Scale ,global functioning, Interest checklist***
- 5. Social and Living Skills, Leisure Satisfaction Scale, Living Skills Assessment***
- 6. Canadian Occupational Performance Measure (COPM)***
- 7. Comprehensive Occupational Therapy Evaluation Scale (COTE scale)***

Seminar / Case presentation / Journal Review

BRANCH – III
ADVANCED OCCUPATIONAL THERAPY IN PAEDIATRIC
PAPER – I

Course hours: Theory: 100 hrs
Practical: 800 Hrs

Theory & Practical

Course Description:

This course covers the theoretical aspects of growth & development, health care services, diagnosis, genetic and embryological influences in development and review of medical and surgical aspects of paediatric conditions.

Course Objectives:

The student is able to develop an in depth knowledge about

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- Process of growth and development
- Prenatal status of development
- Common developmental abnormalities and reason for such defects
- Theoretical approaches to paediatric occupational therapy
- Preventive aspects of paediatric health care
- Medical and surgical aspects of paediatric conditions

Course Content:

UNIT 1 Principles of human development and maturation

UNIT 2 Developmental theories including:

- Psychosexual theory of Freud
- Ego psychology of Erikson
- Cognitive theory of Piaget
- Kohlberg's stages of moral development.
- Maslow's humanistic psychology
- Gessels' developmental schedule
- Hanghurst – developmental tasks
- Skinners theory of radical behaviorism
- Rogers' self theory
- Learning theories

UNIT 3 Genetics

- Review of cellular mitosis and meiosis
- Chromosomes – sex determination
- Chromosomal aberration
- Patterns of inheritance
- Molecular genetics and protein synthesis
- Heredity and environment
- Medical genetics

UNIT 4 Embryology

- Development of a foetus
- Development of various systems
- Stressing on neuromuscular and hand development

UNIT 5 The development process from birth to adolescence including physical-fine and gross motor, adaptive, language, personal, social, cognitive-perceptual, play and self care.

- UNIT 6 Current trends in developmental theory:
- Hemispheric specialization
 - Sociology
 - Interactionism
 - Cognition and learning
- UNIT 7 Diagnostic problems in Paediatrics
- Prenatal problems – birth defects and their causes, the detection and monitoring of high risk pregnancies, foetal diagnostic and intervention procedures, implication for Occupational Therapy.
- UNIT 8 Review medical aspects of the following conditions - cerebral palsy, muscular dystrophy, spina-bifida, meningomyelocele, Still's disease, lung infections, cardiac conditions, orthopaedic problems, arthrogyrosis, metabolic bone disease, genetic skeletal dysplasia, mental retardation, nutritional disorder, high risk infant.
- UNIT 9 Paediatric health care services in India
- Health promotion and well baby clinics
 - Acute episodic care
 - Habilitation and Rehabilitation
 - Community based care
 - Preventive Paediatrics
 - Screening tests and procedures
 - Immunization and Nutrition
- UNIT 10 Role of the family in Paediatric Management
- UNIT 11 Major theoretical approaches to Paediatric Management:
- a. Neuro-physiological approaches
 - b. Reilly-an explanation of play
 - c. Llorens – facilitation growth and development
 - d. Guilfoyle & Brady – spatiotemporal adaption
 - e. Ayres – sensory integration
 - f. Behaviour modification approach
 - g. Conductive education – Peto
 - h. Biomechanical approach
 - i. Activities therapy – including activity analysis for paediatric condition

j .Visual perception

k.Acquisition frames of reference

UNIT 12 Developing trends in treatment of OT in Pediatrics

Seminar / Case presentation / Journal Review

BRANCH – III
ADVANCED OCCUPATIONAL THERAPY IN PAEDIATRICS
PAPTER – II

Course hours: Theory: 100 Hrs
Practical: 800 Hrs

Theory and Practical

Course Description:

This course deals with methods of assessment and screening, evaluating components of function in children and Occupational Therapy Intervention in specialized areas of practice.

Course Objectives:

The students are able to learn:

- Basic methods of assessment and screening
- Evaluating components of behavior
- Evaluating childhood performance
- Self maintenance activities in children
- Work behavior and vocational development
- Occupational Therapy in specialized areas of practice.

Course Content:

- UNIT I Basic methods of assessment and screening
- a. Clinical observation of basic skills
 - b. Clinical observation of the child interacting with the environment
 - c. Interviewing
 - d. History taking
 - e. Screening instruments including standardized tests criterion-reference tests
 - f. Commercial tests- Apgar score Denver developmental screening test Gesells' developmental scale
 - g. Use of checklists
- UNIT 2 Methods of evaluating component functions of behavior in children:
- a. Testing motor function, clinical and other systems of evaluation
 - b. Evaluating hand functions
 - c. Testing sensory processing (**integrative**) **dysfunction**
 - d. Testing cognitive and perceptual function
 - e. Testing psychosocial function
 - f. Testing and Language and communication
 - g. Hand writing evaluation
 - h. Behaviour evaluation
- UNIT 3 Methods to evaluate childhood performance skills
- UNIT 4 Hand function development and treatment
- UNIT 5 Self maintenance activities:
- a. Eating – oral motor control evaluation and treatment
 - b. Toileting
 - c. Grooming and hygiene
 - d. Mobility including mobility aids
- UNIT 6 Adaptations for independence
- UNIT 7 Orthosis and prosthesis in children
- UNIT 8 Group therapy for children
- UNIT 9 Play and recreational activities
- UNIT 10 School based interventions
- UNIT 11 Work behavior and vocational development

- UNIT 12 Early intervention programmes
- UNIT 13 Preventive management in Paediatrics
- UNIT 14 The high risk infant – intervention in the NICU and follow-up care
- UNIT 15 Occupational Therapy intervention in Children with CP and other developmental disabilities.
- UNIT 16 Occupational Therapy intervention in Children with mental retardation
- UNIT 17 **children with learning disabilities and Developmental coordination disorders**
- UNIT 18 Burn injured child
- UNIT 19 Children with seizure disorders
- UNIT 20 Children with visual & hearing impairment
- UNIT 21 Children with communication impairment
- UNIT 22 Death and dying in children
- UNIT 23 Children with Orthopaedic disabilities
- UNIT 24 Child abuse and neglect
- UNIT 25 Neural tube defects
- UNIT 26 Juvenile Rheumatoid Arthritis
- UNIT 27 Autism
- UNIT 28 Attention deficit and Hyperactivity disorder
- UNIT 29 Children with emotional and behavioural disorders including neurosis, depression, suicidal behaviour, aggressive behaviour dependent child and Schizoid child.
- UNIT 30 Children with genetic disorders and muscle disorder

UNIT 31

- 1. Any two Scales for visual motor integration, visual perception***
- 2. Any two scales for ADL evaluation***
- 3. Diagnostic tools for ADHD, Autism, LD, CP***
- 4. Any two behavioural assessment***
- 5. Any two scales for sensory processing***
- 6. Gross motor skills, (GMFM, assessment of bilateral integration)***
- 7. Hand function***

8. Assessment of balance and posture

9. Hand writing assessment

10. Assessment of developmental milestones (cognitive, perceptual, social, emotional, motor skills)

Seminar / Case presentation / Journal Review

**BRANCH – IV
ADVANCED OCCUPATIONAL THERAPY IN NEUROLOGY
PAPER – I**

Course hours: Theory: 100 Hrs

Practical: 800 Hrs.

Theory & Practical

Course Description:

This course forms a background for Occupational Therapy practice in Neurology.

Course Objectives:

The student is able to have an in depth theoretical knowledge of the Occupational Therapy approaches to neurological conditions and various aspects of evaluation and treatment.

Course Content:

UNIT 1 Review of Neurosciences: Neuro Anatomy and Neuro Physiology.

Some aspects of higher nervous function:

- a. The study of sensation in Physiology; Psychophysical and neurophysiologic connections.
- b. Higher functions of the nervous system

- c. Some special functions of human brain - Dominance, language, apraxia, memory and attention.

Neural control of posture and movement:

- a. The skeletal muscle and nervous system
- b. Feedback signals from muscle and their efferent control
- c. Organization of the motoneuron pool; the size principle
- d. Input to motoneuron pools and its effects
- e. Organizations of spinal cord and its reflexes
- f. Motor functions of basal ganglia and brainstem
- g. The role of the vestibular system in posture and movement
- h. The cerebellum
- i. Motor functions of the cerebral cortex

The hypothalamus and control of integrative processes.

UNIT 2 Evaluation of the somatosensory system – Treatment principles

Special tests in Neurology

UNIT 3 Evaluation of motor control; Motor control therapy

Evaluation –performance evaluation

UNIT- 4 Nervous system history and examination

UNIT – 5 Evaluation of reflexes and reactions.

UNIT –6 Neuropsychological evaluation

UNIT – 7 Investigations: CT Scan, MRI Scan, EEG, SSEPO, EMG, NCV

UNIT – 8 Cognitive and perceptual evaluation frames of reference and treatment

UNIT - 9 Evaluation of motor control; Motor control therapy

UNIT – 10 Neurophysiology of sensory motor approaches to treatment.

UNIT – 11 Neurophysiological and developmental treatment approaches

- a. Rood.
- b. Bobath

- c. Brunstrom
- d. PNF
- e. Carr and Shepherd

UNIT – 12 Biomechanical approach and Task oriented approach.

UNIT – 13 Rehabilitative approach

Evaluation of occupational performance tasks.

ADL

Home making and child care

Leisure time activities.

Work assessments and Programmes

UNIT – 14 Orthosis in Neurological conditions - *Design, fabricate, application, fitting, and training in orthotic devices used to enhance occupational performance and participation.*

UNIT – 15 Wheel chair measurement and *prescriptions and training in techniques to enhance functional mobility, including:*

a. Physical transfers

b. Wheelchair management

c. Wheel chair adaptations

d. Power wheelchair and Mobility devices

UNIT – 16 Swallowing assessment and management and training others in precautions and techniques while considering client and contextual factors.

UNIT 17 Vestibular stimulation and treatment of postural and related deficits

UNIT 18 Nervous system history **taking** and examination

- UNIT 19 Neuropsychological evaluation
- UNIT 20 Investigations: CT scan, MRI Scan, EEG, SSEP, EMG, NCV
- UNIT 21 Classification of Neurological disorders
- UNIT 22 Assistive technology **and use of computer in patient care**
- UNIT 23 FES in retraining upper-extremity function
- UNIT 24 Upper extremity & lower extremity motion analysis
- UNIT 25 Surgical management of Neurological conditions
- UNIT 26 **Pain Assessment and Management**

Seminar / Case presentation / Journal Review

BRANCH – IV
ADVANCED OCCUPATIONAL THERAPY IN NEUROLOGY
PAPER –II

Course hours: Theory: 100 Hrs

Practical: 800 Hrs

Theory & Practical

Course Description:

This course describes the Occupational Therapy process of intervention in various Neurological conditions.

Course Objectives:

The student is able to apply theoretical knowledge in evaluating and treating Neurological conditions.

Course Content:

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Selection and implementation of appropriate treatment techniques in the following Neurological conditions:

UNIT 1 Intracranial Neurological disease or disorder

- a. **Developmental anomalies**
- b. **Hydrocephalus**
- c. **Head-injury**
- d. **Chronic subdural haematoma**
- e. **Intracranial Tumours**
- f. **Benign intracranial hypertension**
- g. **Intracranial abscess and infections**
- h. **Cerebro-vascular disease**
- i. **Movement disorders, extra-pyramidal system**

UNIT 2 Disorders of Spinal cord and root:

- a. Spinal cord and root compression **including paraplegia and quadriplegia**
- b. Disc prolapse and root compression
- c. Spinal trauma
- d. Vascular disease
- e. **Neural Tube Defects including Spinal dysraphism**

UNIT 3 Disorders of Peripheral nerve and muscle:

- a. Polyneuropathies
- b. Plexus syndromes and mononeuropathies
- c. The autonomic nervous system
- d. Disease of skeletal muscle **and various types of muscular dystrophy**
- e. **Neuromuscular junction including Myasthenia gravis**

UNIT 4 Multifocal Neurological disease:

- a. Infections
- b. Demyelinating disease.
- c. Metabolic encephalopathy
- d. Neurological complications of drugs and toxins
- e. Nutritional disorders

- f. Degenerative disorders
- g. Motor neuron disease
- h. Neurocutaneous syndrome

UNIT 5 Disorders of special senses

UNIT 6 Disorders of consciousness

UNIT 7 Pain and disorders of somatic sensation

UNIT 8 Neuropsychological disorders

UNIT9 Developing trends in Occupational Therapy management in Neurological conditions.

UNIT 10 *Standardised assessment and scales - Any two scales*

- 1. For ADL evaluation*
- 2. Prognostic tools for Stroke ,parkinsons,TBI,*
- 3. Any two neuropsychological assessment*
- 4. Hand function and Upper extremity function scales*
- 5. Assessment of balance , posture and gait*
- 6. Assessment of Coginitive and perceptual skills*

Seminar / Case presentation / Journal Review

BRANCH – V
ADVANCED OCCUPATIONAL THERAPY IN HAND
REHABILITATION
PAPER – I

**Course hours: Theory: 100
Hrs,Practical: 800 Hrs**

Theory & Practical

Course Description:

This course covers the theoretical aspects of Hand Rehabilitation and Occupational Therapy approaches to Hand Rehabilitation including evaluation and general principles of treatment in Hand Rehabilitation.

Course Objectives:

The student is able to develop an in depth knowledge of:

- Anatomy of Hand
- Pathophysiology of Hand Injury
- Biomechanics of Hand
- Assessment of Hand
- Treatment Approaches
- Hand Splinting

Course Content:

- UNIT 1 Anatomy of Hand: Osteology, Myology, Vascular system, Neurology and Skin.
- UNIT 2 Physiologic response to injury
- UNIT 3 Biomechanics of Hand
- UNIT 4 Pathomechanics of Hand and Wrist deformities
- UNIT 5 Psychological aspects of Hand injury
- UNIT 6 Historical perspectives of Hand management
- UNIT 7 Evaluation of Hand:
 - a. Clinical evaluation
 - b. Instrument selection criteria
 - c. Assembling a test battery
 - d. Current instruments
 - e. Objective measurement of Hand function
 - f. Evaluation of Autonomic dystrophies
 - g. NCV and EMG studies
 - h. Disability evaluation
 - i. Functional capacity evaluation
 - j. Prevocational and vocational evaluation
 - k. Hand function assessment in upper motor neuron lesions
 - l. Paediatric Hand assessment
 - m. Evaluation of Physical daily living skills

- UNIT 8 Treatment approaches:
- a. Motor re-education: Biomechanical approaches, Neurophysical approaches
 - b. Management of sensory dysfunction: Sensory re-education, Desensitization
 - c. Management of Oedema
 - d. Pain Management in the upper extremity
 - e. Management of joint movement pathology
 - f. Hand function training
 - g. Training Physical living skill
 - h. Work resettlement – rehabilitative approach
 - i. Work simulation
 - j. Work hardening
 - k. Biofeedback in Hand Rehabilitation.

UNIT 9 Hand function development – Prenatal to 5 years of development

UNIT 10 Activity analysis for upper extremity
Activity adaption for Hand Rehabilitation

UNIT 11 Hand Splinting:

- a. Static and dynamic splinting
- b. Principles of splinting
- c. Splint application for various Hand conditions
- d. Innovative splinting
- e. Practical construction of customized, innovative splints for five different patients.

UNIT 12 Nerve response to injury and repair

UNIT 13 Wound classification, wound healing, Biological basis of Hand Surgery.

Seminar / Case presentation / Journal Review

BRANCH – V

Regulation & Syllabus for MOT 2014-15

ADVANCED OCCUPATIONAL THERAPY IN HAND REHABILITATION
PAPER – II

Course hours: Theory: 100 Hrs
Practical: 800 Hrs

Theory & Practical

Course Description:

This course deals with the medical and surgical aspects of various Hand conditions and evaluation and Occupational Therapy intervention in these conditions.

Course Objectives:

The student develops an in depth knowledge and skills in treating various hand conditions:

- Learns about preventive aspects of hand rehabilitation
- follows recent trends in hand rehabilitation.

Course Content:

- UNIT 1 Management of the mutilated hand
- UNIT 2 Management of the stiff hand
- UNIT 3 Dupuytren's disease
- UNIT 4 Management of Hand Fractures
- UNIT 5 Joint injuries in the Hand
- UNIT 6 Tendons:

- a. Early care of flexor tendon injuries; Application of principles of tendon healing and early motion.
- b. Management of flexor tendon injuries in Zone – II
- c. Extensor tendon injuries and management
- d. Tendon grafting and tenolysis
- e. Staged flexor tendon reconstruction.

UNIT 7 Nerve lesions:

- a. Tendon transfers as early internal splints following peripheral nerve injuries
- b. Tendon transfers in upper extremities
- c. Management of the Tetraplegic Hand

d. Surgical restoration of sensation.

UNIT 8 Reflex dystrophies and pain:

- a. Causalgia
- b. Complications of wrist fractures
- c. Shoulder Hand syndrome
- d. Behaviour Patterns in Reflex Sympathetic Dystrophies

UNIT 9 Replantation:

- a. Restoration of thumb function following partial or total amputation
- b. Rehabilitation following replantation of the upper extremity

UNIT 10 Rehabilitation of Burned Hand:

UNIT 11 Arthritis:

- a. Pathogenesis of arthritic lesions
- b. Hand therapy in the early stages of Rheumatoid arthritis
- c. Post operative management of patients after replacement excision arthroplasty

UNIT 12- Rehabilitation of the upper extremity following stroke

UNIT 13 Amputation and prosthetic management

UNIT 14 Management of the Paediatric upper extremity:

- a. Congenital anomalies of the upper limb
- b. Cerebral palsy
- c. Arthrogryposis
- d. Brachial Plexus Injuries
- e. Poliomyelitis.

UNIT 15 Management of the upper extremity with tremor, dystonia and choreo – athetosis.

UNIT 16 Hansen's disease

UNIT 17 Cumulative trauma disorder of the upper extremity.

Industrial injuries.

Regulation & Syllabus for MOT 2014-15

Seminar / Case presentation / Journal Review

BRANCH – VI

ADVANCED OCCUPATIONAL THERAPY IN GERONTOLOGY

PAPER – I

Course hours: Theory: 100 Hrs

Practical: 800 Hrs

Theory & Practical:

Course Description:

This course forms a theoretical background for Occupational Therapy intervention in Gerontology.

Course Objectives:

Gain Knowledge of ageing and development as normal life process.
Demonstrate Knowledge of the basic biological and psychosocial theories of ageing Identify the major demographic and health statistics of the older population and recognize the value of Occupational Therapy to the elderly consumer. Recognize the anatomical, psychological and cognitive changes of advancing age and differentiate these changes from diseases or pathological processes.

Course Content:

- UNIT 1 Middle and ageing years – the development aspects
- UNIT 2 Theories of ageing
 - genetic theories
 - non-genetic theories
 - developmental theory
 - disengagement theory
 - activity theory
- UNIT 3 Research on the social and physical aspects typical of ageing
- UNIT 4 Health and medical care in ageing
- UNIT 5 Health context of ageing
- UNIT 6 The ageing process:
 - Initial physiological response
 - Response of the old person

- Peak level of response
- Biorhythms
- Response of connective tissue, elastic tissue, glycoprotein, contractile protein, cartilage and bone density, brain.
- UNIT 7 Acute and chronic illness.
- UNIT 8 Comprehensive care of the elderly and effect on morbidity, age and morbidity, Organization of health services for the elderly.
- UNIT 9 The geriatric patient Definition
 - Goals of management
 - The element of risk
 - Independence not cure
 - Expectation of old age rehabilitation
- UNIT 10 CNS changes in ageing
 - Neuropsychological measurement of cerebral function.
- UNIT 11- Epidemiology
- UNIT 12 Controversies in geriatric medicine
 - Nutrition
 - Hypertension in the elderly
 - Oestrogen replacement therapy
 - Surgery and the elderly patient
 - Ordinary versus extraordinary measures in the care of the elderly
- UNIT 13 Nurturing Motivation.
- UNIT 14 Death, dying, bereavement and grief
- UNIT 15 Attitudes to ageing
- UNIT 16 Therapeutic relationship with older clients
- UNIT 17 Pre-retirement planning
 - Role continuity
 - Life expectancy
 - Need for activity
 - Arousal and environmental pressures
- UNIT 18 Activities therapy and activity analysis
- UNIT 19 Context of elderly care
 - Hospital
 - Community
 - Institutional

- Hospice
- Day-care
- UNIT 20 Investigations in the elderly
- UNIT 21 Team approach o the geriatric patient
- UNIT 22 Treatment in geriatrics
 - Prevention
 - Accommodation
 - Restoration

Seminar / Case presentation / Journal Review

BRANCH – VI
ADVANCED OCCUPATIONAL THERAPY IN GERONTOLOGY
PAPER – II

Course Hours: Theory: 100 Hrs
Practical: 800 Hrs

Theory & Practical

Course Description:

This course deals with O.T evaluation and intervention in various conditions in ten elderly patients.

Course Objectives:

Identify major physical and psychopathological conditions secondary to ageing.
Identify the roles and functions of Occupational Therapy personnel in gerontic practice in institutional and community setting including – acute care, rehabilitation, hospice, day-care, retirement planning programmes. Apply principles of assessment, treatment planning, re-evaluation and continuity of care to gerontic patient. Develop effective gerontic Occupational Therapy programme in activity programming, prevention, care of the terminally ill, ADL, therapeutic adaptation and cognitive and psychosocial treatment.

Course Content:

- UNIT I Assessment of the elderly
 - Physical
 - Psychosocial
 - Functional performance
 - Domestic
 - Home and environment

UNIT 2 Treatment approaches in geriatrics

- a. Neuropsychological
- b. Biomechanical
- c. Rehabilitative
- d. Model of human occupation
- e. Acquisitional
- f. Analytical
- g. Developmental

UNIT 3 Occupational Therapy intervention

Skill based intervention

Habit based intervention

Environment based intervention.

UNIT 4 Age-related physical conditions in the elderly relevant to

Occupational Therapy evaluation and intervention:

- a. Age-related physiological changes in the cardiovascular system
- b. Influence of the age on renal function
- c. Age related change in endocrine function
- d. Age related changes in skin
- e. Falls by the aged
- f. Cerebrovascular disease
- g. Complaints related to the spine
- h. Infections in the elderly
- i. Congestive cardiac failure
- j. Cancer in the elderly
- k. Pain
- l. Sleep disorders
- m. Sensory impairment

UNIT 5 Geriatric Psychiatry

- a. Psychiatric disorders of late life
- b. Alzheimer's disease
- c. Multi-infarct dementia
- d. Pick's disease
- e. Mood disorders
- f. Schizophrenia

- g. Anxiety
- h. Personality disorders
- i. Drug and alcohol abuse

UNIT 6 Abuse and neglect of the elderly-

Physical

Psychological

Material

- UNIT 7 Community based care
- UNIT 8 Group therapy for the elderly
- UNIT 9 Reality orientation
- UNIT 10 Treatment media for the elderly
- UNIT 11 Anxiety management
- UNIT 12 Temporal adaptation
- UNIT 13 Social and recreational needs
- UNIT 14 Further learning for the elderly
- UNIT 15 Leisure options
- UNIT 16 Environmental adaptation
- UNIT 17 Recent trends in Gerontology

Seminar / Case presentation / Journal Review

BRANCH – VII

ADVANCED OCCUPATIONAL THERAPY IN ORTHOPAEDICS

PAPER – I

Course hours: Theory : 100 Hrs

Practical: 800 Hrs

Theory & Practical

Course Description:

This course provides a theoretical background for Occupational Therapy intervention in orthopaedic conditions.

Course Objectives:

The student will acquire knowledge in:

- Biomechanics
- Orthopaedic Assessments

- Treatment principles in Orthopaedic Conditions

Course Content:

UNIT 1 Review knowledge in Osteology and myology

UNIT 2 Biomechanics : **Basic concept in biomechanics**

Upper limb

Lower limb,

Spine

Gait

UNIT 3 Evaluation of the musculo-skeletal systems:

a. Cervical spine

b. The shoulder

c. Elbow

d. Forearm, wrist and hand

e. Thoracic spine

f. Lumbar spine

g. Hip

h. Knee

i. Ankle and foot

j. Assessment of posture

k. Assessment of gait

UNIT 4 Evaluation of range of motion, muscle strength and endurance

UNIT 5 Treatment to prevent and improve limitation of range of motion

UNIT 6 Treatment to increase muscle strength

UNIT 7 PNF – Techniques relevant to orthopedic conditions

UNIT 8 Rehabilitation Frames of reference

UNIT 9 Treatment to increase endurance

UNIT 10 Supportive treatment in Orthopaedic conditions

UNIT 11 Therapeutic media:

a. Activity selection and analysis

b. Activity adaptation

UNIT 12 Biofeedback

UNIT 13 MAS and sling suspension

UNIT 14 Orthotics

UNIT 15 Prosthetics

UNIT 16 Wheelchair measurement and prescription, **wheel chair adaptation, power wheel chair**

UNIT 17 Ergonomics, Growth and Anthropometric measures

- UNIT 18 Work hardening
UNIT 19 ADL
UNIT 20 Resettlement
UNIT 21 Investigations: CT, MRI, X-ray
UNIT 22 General principles of surgical techniques and approaches
Seminar / Case presentation / Journal Review
Industrial Visit – 1 week (Heavy industries – automobile, textile etc...)

BRANCH – VII

ADVANCED OCCUPATIONAL THERAPY IN ORTHOPAEDICS

PAPER – II

Course hours: Theory: 100 Hrs

Practical: 800 Hrs

Theory & Practical

Course Description:

This course covers a wide range of Orthopaedic conditions and Occupational Therapy intervention in these conditions.

Course Objectives:

The student will acquire an in-depth knowledge about various Orthopaedic conditions and will be able to plan and implement Occupational Therapy for the same.

Course Content:

- UNIT 1 Infections
General principles of infections
Osteomyelitis
Infectious arthritis
Tuberculosis and other unusual infections
- UNIT 2 Tumours
Malignant and benign tumours of bone
Soft tissue tumours
- UNIT 3 Arthrodesis of lower and upper extremity
- UNIT 4 Arthroplasty of upper and lower extremity

UNIT 5 Amputation of upper and lower extremity

UNIT 6 Fractures

General principles of fracture treatment

Fracture of lower and upper extremities

Fracture and dislocation in children

Malunited fractures

Delayed union and non-union of fractures.

Other Complications and its prevention and management

UNIT 7 Dislocations

Acute dislocation

Recurrent dislocation

UNIT 8 Traumatic disorders of joints

Hip, ankle and knee injuries

Shoulder and elbow injuries

UNIT 9 Non-traumatic bone and joint disorders

UNIT 10 Congenital anomalies

Lower and upper extremity and trunk

UNIT 11 Nervous system disorders

Peripheral nerve injuries

Cerebral palsy

Paralytic disorders

Inherited progressive muscular disease.

UNIT 12 Hand

Acute injuries

Tendon

Fracture

Dislocation and ligamentous injury

Nerve injury

Wrist injuries

Amputation

Paralytic hand

Cerebral palsy hand

Arthritis

Volkman's ischaemic disorder

Dupuytren's contracture

Carpal tunnel and ulnar tunnel syndrome

UNIT 13 Spine

Spinal fractures
Spinal dislocations
Spinal fracture dislocation
Arthrodesis of spine
Scoliosis and kyphosis
Low back pain and intervertebral disc disorder
Infections of the spine
Other disorders of the spine

UNIT 14 Developing trends in Occupational Therapy management of Orthopaedic conditions.

UNIT 15 *Standardised assessment and scales - Any two scales*

- 1. For ADL evaluation*
- 2. Hand function and Upper extremity function scales*
- 3. Assessment of gait, balance and posture.*
- 4. Ergonomics and work evaluation .*
- 5. Quality of life scale ,COPM*
- 6. Pain scale*

Seminar / Case presentation / Journal Review

BRANCH – VIII
ADVANCED OCCUPATIONAL THERAPY IN COMMUNITY BASED
REHABILITATION
PAPER – I

Course Hours: Theory: 100 Hrs
Practical: 800 Hrs

Theory and Practical

Course Description:

This course provides a background in concepts of Health, Health Promotion, Epidemiology of disability, Disease prevention and Health care system.

Course Objective:

To help students develop concept of health, health care systems, health promotion, epidemiology of disability and disability prevention. To understand and be able to apply the international classification of function, disability and health. To understand the development, concept and definition of community based rehabilitation, Essential components of a community based programme and role of Occupational therapists in Community Based Rehabilitation.

Course content:

UNIT 1 Definition of Health

Concept of Health: Biomedical
Ecological
Psychosocial
Holistic

UNIT 2 Health care of the community

Primary Health care system in India

UNIT 3 Legal Aspects related to disability: Government programmes and Advocacy, including

P.W.D. Act, **Government benefits for differently abled**

UNIT 4 Epidemiology of Disability

UNIT 5 International classification of function, Disability and Health,

Disability evaluation

UNIT 6 Health promotion: Definition Approaches of Health promotion:

- Health education and communication,
- Health education in Rehabilitation influencing health beliefs and health behavior
- Changing Behaviour.

UNIT 7 Disability prevention – levels of prevention and OT's role.

Strategies to be used in C.B.R for prevention of Secondary Disabilities: Early Intervention, Transfer of knowledge, Training and Technology. To include the following diseases and disorders:

Poliomyelitis, Encephalitis, Tuberculosis, Filariasis, Leprosy, Tetanus Rubella, H.I.V & A.I.D.S, Visual impairment, Hearing Impairment, Cerebral Palsy, Neuromuscular diseases, Amputation, Arthritis, Psychiatric Illness. **Learning Disability**

- UNIT 8 Counselling and Psychological issues in disability
 - UNIT 9 History, concept and definition of C.B.R
 - UNIT 10 Concepts of community as in C.B.R
 - UNIT 11 Programme criteria for C.B.R programme
 - UNIT 12 Essential components of a C.B.R programme
 - UNIT 13 Sectors and roles for development of C.B.R
 - UNIT 14 Role of Occupational Therapists in C.B.R
- Seminar / Case presentation / Journal Review**

BRANCH VIII
OCCUPATIONAL THERAPY IN COMMUNITY BASED
REHABILITATION

PAPER – II

Course Hours: Theory: 100 Hrs

Practical: 800 Hrs

THEORY & PRACTICAL

Course Description:

This course focuses on various components of a Community Based Rehabilitation programme, planning, development, management and evaluation of a C.B.R programme.

Course Objectives:

This course helps the students acquire requisite knowledge for developing and managing a community based rehabilitation programme.

Course Content:

- UNIT 1 Attitude towards disability, types of attitudes, promoting awareness.
- UNIT 2 Screening for disability
- UNIT 3 Needs and resource analysis
- UNIT 4 Planning & management
- UNIT 5 Use of local resources
- UNIT 6 Training of personal for C.B.R and man-power development.
- UNIT 7 Community participation - influencing factors, barriers to community participation, levels of participation.
- UNIT 8 Addressing needs of women with disability
- UNIT 9 Addressing needs of the elderly in the community
- UNIT 10 Assistive technology and setting up of a rural work-shop
- UNIT 11 Sustainability and managing change
- UNIT 12 Access and environmental barriers
- UNIT 13 Cost information-definition, analysis of cost, cost Categories, cost allocation, steps of analysis
- UNIT 14 Self help groups and Peer interaction groups
- UNIT 15 Evaluation of C.B.R. programme: Process evaluation and outcome evaluation, Indicators, Quantitative data, Qualitative data, Quantitative attitude scales, Experimental research, Action research.

Seminar / Case presentation / Journal Review