

**JSS Academy of Higher Education & Research**

( Deemed to be University )

Re-Accredited "A+" Grade by NAAC

Sri Shivarathreeshwara Nagara Mysuru - 570015, Karnataka

# Regulation & Syllabus

## MD PSYCHIATRY

**2020**

## **MD PSYCHIATRY**

**GOAL:** The goal of postgraduate training in Psychiatry is to produce a competent psychiatrists equipped with necessary knowledge, skills and attitude to impart education, render compassionate patient care, to carry out basic scientific research and be able to serve the community by rendering service to the subjects.

### **PROGRAM OUTCOMES:**

The primary goal of the MD course in Psychiatry is to produce a postgraduate clinician able to provide health care in the field of Psychiatry , who must be able to -

- PO1: Demonstrate the acquisition of comprehensive knowledge about the relevance of mental health in relation to the country's health needs.
- PO2: Demonstrate the ability to identify the social, economic, biological and emotional determinants of mental health
- PO3. Demonstrate the capability to use appropriate diagnostic, therapeutic and rehabilitative procedures to the mentally ill patient
- PO4: Demonstrate the ability to take detailed history, conduct appropriate ethically valid physical examination and institute appropriate evaluation procedures to make a correct clinical diagnosis
- PO5: Demonstrate the capability to plan and deliver comprehensive treatment of a psychiatric patient using principles of rational drug therapy
- PO6: Demonstrate the ability to clinically manage psychiatric emergencies efficiently
- PO7: Demonstrate communication skills of a high order in explaining management and prognosis, providing counselling and giving health education messages to patients, families and communities
- PO8: Develop appropriate skills to practice evidence-based psychiatry and required teaching skills in psychiatry.

### **COURSE OUTCOMES:** (Each Paper is Course):

**Paper I:** Neuroanatomy , Neurophysiology , Neurochemistry , Genetics , General and Abnormal Psychology , Social Psychology , Anthropology , Ethology and Statistics

- CO1: Demonstrate the acquisition of comprehensive knowledge of basic Neuroanatomy , physiology and chemistry
- CO2: Apply the analytical skills to correlate the variation in the Normal and Abnormal Psychology
- CO3: Demonstrate the acquisition of comprehensive knowledge about basic principles involved in genetics and statistics
- CO4: Demonstrate the acquisition of comprehensive knowledge about historical perspectives of Anthropology , Social Psychology and Ethology

**Paper II:** History of psychiatry , Classification systems in Psychiatry , Adult Psychiatric disorders , Consultation -Liaison psychiatry , Geriatric psychiatry , Psychiatric Emergencies , Psycho-oncology , Psycho-immunology and Psycho-endocrinology

- CO1: Demonstrate the acquisition of comprehensive knowledge and skills related to History of psychiatry , Classification systems in Psychiatry
- CO2: Demonstrate the acquisition of comprehensive knowledge and skills about the Adult Psychiatric disorders
- CO3: Capability to analyse and evaluate the disease process in Adult Psychiatric disorders

CO4: Demonstrate the acquisition of comprehensive knowledge, skills and advances related to Consultation -Liaison psychiatry , Geriatric psychiatry , Psychiatric Emergencies

CO5: Demonstrate the acquisition of comprehensive knowledge and skills related to Psycho-oncology , Psycho-immunology and Psycho-endocrinology

**Paper III:** Child and adolescent psychiatry disorders ,Mental health issues in women , Psycho-Pharmacology , Electro convulsive therapy , Psycho surgery , Psychotherapy , Rehabilitation in Psychiatry , Forensic Psychiatry , Cultural Psychiatry , Community Psychiatry and Ethics in Psychiatry

CO1: Demonstrate the acquisition of comprehensive knowledge and skills related to Child and adolescent psychiatry disorders

CO2: Demonstrate the acquisition of comprehensive knowledge and skills about the Psycho-Pharmacology , Electro convulsive therapy , Psycho surgery , Psychotherapy

CO3: Demonstrate the acquisition of comprehensive knowledge about the Forensic Psychiatry , Cultural Psychiatry , Community Psychiatry

CO4: Demonstrate the acquisition of comprehensive knowledge about the Rehabilitation in Psychiatry and Ethics in Psychiatry

**Paper IV:** Neurology , General Medicine related to Psychiatry and Recent advances

CO1: Demonstrate the acquisition of analytical skills to describe the General Medicine related to Psychiatry

CO2: Demonstrate the acquisition of comprehensive knowledge about Neurology

CO3: Demonstrate the skills to acquire the knowledge about the recent advances related to psychiatry

## **OBJECTIVES:**

After completing the course, the postgraduate should:

1. Have mastered most of the competencies, with awareness of the contemporary advances and developments in Psychiatry.
2. Be a competent teacher in Psychiatry, who shall have acquired the basic skills in teaching the medical and paramedical professionals.
3. Be a researcher who shall have acquired a spirit of scientific inquiry and is oriented to the principles of research methodology.
4. Be able to explain the conceptual knowledge of Psychiatry that can be effectively used by the clinicians in various clinical settings to diagnose and treat the clinical conditions.
5. Be able to interact with allied departments and render Psychiatric services.

After completing the three year course in MD Physiology the student should have achieved competence in the following:

### **1. Knowledge of Psychiatry**

Acquire competencies related to psychiatry with the recent advances.

### **2. Practical and Procedural skills**

Acquire mastery in history taking, clinical examination and diagnosis of various psychiatric and general medical conditions

### **3. Training skill in Research Methodology**

- Acquire skills in teaching, research methodology, epidemiology & basic information technology.
- Acquire knowledge in the basic aspects of Biostatistics and research methodology.

- Has knowledge to plan the protocol of a thesis, carry out review of literature, execution of research project and preparation of report.
- Has ability to use computer applications Microsoft office (Microsoft word, excel, power point), Internet, Searching scientific databases (e.g. PubMed, Medline, Cochrane reviews).
- Acquire skills in paper & poster preparation, writing research papers and Thesis.

#### **4. Professionalism, attitude and communication skills:**

- Develop honest work ethics and empathetic behaviour with students and colleagues.
- Acquire capacity of not letting his/her personal beliefs, prejudices, and limitations come in the way of duty.
- Acquire attitude and communication skills to interact with colleagues, teachers and students.

#### **5. Teaching Psychiatry:**

- Practising different teaching-learning methods.
- Making presentations of the subject topics and research outputs.

#### **6. Problem Solving:**

- Demonstrate the ability to identify applied implications of the knowledge of Psychiatry and discuss information relevant to the problem, using consultation, texts, archival literature and electronic media.
- Demonstrate the ability to evaluate scientific/clinical information and critically analyse conflicting data and hypothesis.

### **COMPETENCIES:**

#### **SUBJECT SPECIFIC COMPETENCIES**

**By the end of the course, the student should have acquired knowledge (cognitive domain), professionalism (affective domain) and skills (psychomotor domain) as given below:**

#### **A. Cognitive domain**

**By the end of the course, the student should demonstrate knowledge in the following:**

##### **1. General topics:**

1. The student should be able to demonstrate knowledge of basic sciences (Anatomy, Physiology, Biochemistry, Microbiology, Pathology and Pharmacology) as applied to Psychiatry.
2. The student should be able to explain aetiology, assessment, classification and management and prognosis of various psychiatric disorders (including psychiatric sub-specialities including Neuroanatomy, Neuropsychology, Neurochemistry, Neuroimaging, Electrophysiology , Psychoneuroendocrinology, Psychoneuroimmunology, Chronobiology and Neurogenetics.
3. Acquire knowledge of delirium, dementia, and amnesic and other cognitive disorders and mental disorders due to a general medical condition.

4. The student should be able to discuss long term care of persons with chronic mental health problems
5. The student should acquire knowledge of emergency measures in acute crisis arising out of various psychiatric illnesses including drug detoxification and withdrawal.
6. The student should acquire knowledge of pharmacokinetics & pharmacodynamics of drugs involved in psychiatric management of patients.
7. The student should acquire knowledge of (a) normal child development and adolescence (b) neurodevelopmental disorders, intellectual disability and specific learning disability and their management
8. The student should acquire knowledge and be able to explain mechanisms for rehabilitation of psychiatric patients.
9. The student should acquire knowledge of substance related disorders and their management.
10. The student should acquire knowledge of psychotic disorders, mood disorders, and anxiety disorders and their management
11. The student should understand difference between sex and gender/ biological and social construction of personhood; sexual/gender identity; transgender, gender non-conformity, and other gender diverse identities, sexual/sexuality identity, sexual orientation, sexual desire; the wide variety, and cultural presence of various sexual orientations and desires; gender dysphoria and its management.
12. The student should acquire knowledge of eating disorders and sleep disorders and their management
13. The student should be conversant with recent advances in Psychiatry.
14. The student should be conversant with routine bedside diagnostic and therapeutic procedures and acquire knowledge of latest diagnostics and therapeutics procedures available.
15. The student should be conversant with various policy related aspects of Psychiatric practice in India (e.g. Mental Health Act, National Health Mental Health Programmes etc.).
16. The student should be conversant with research methodologies.
17. Student should be conversant with the role of Yoga and Meditation in the management of psychiatric disorders.

## **B. Affective Domain:**

1. The student should be able to function as a part of a multidisciplinary team, develop an attitude of cooperation with colleagues, and interact with the patient and the clinician or other colleagues to provide the best possible diagnosis or opinion.
2. The student should always adopt ethical principles and maintain proper etiquette in dealings with patients, relatives and other health personnel and to respect the rights of the patient including the right to information, confidentiality and second opinion.
3. The student should develop communication skills to prepare reports and professional opinion as well as to interact with patients, relatives, peers and paramedical staff, and for effective teaching.

## **C. Psychomotor domain**

**At the end of the course, the student should acquire the following clinical skills and be able to:**

1. Obtain a proper relevant history and perform thorough clinical examination including detailed mental state examinations using proper communication skills.
2. Able to do risk assessment and mental capacity assessment.
3. Provide a clinical formulation, arrive at a logical working diagnosis and differential diagnosis after clinical examination.
4. Order appropriate investigations keeping in mind their relevance and cost effectiveness and obtain additional relevant information from family members to help in diagnosis and management.

## **PRACTICE BASED COMPETENCIES**

**The student, at the end of the course should be able to perform independently, the following:**

1. Conduct detailed Mental Status Examination (MSE)
2. Cognitive behaviour therapy
3. Supportive psychotherapy
4. Modified ECT and non-invasive neuromodulation
5. Clinical IQ assessment
6. Management of alcohol withdrawal
7. Alcohol intoxication management
8. Opioid withdrawal management
9. Delirious patients
10. Crisis intervention

**The student must be able to assess a patient with following symptoms:**

1. Psychotic symptoms
2. Seizures: true and pseudo seizure
3. Anxiety symptoms
4. Affective symptoms
5. Cognitive symptoms
6. Catatonia
7. Delirium
8. Malingering
9. Behavioural symptoms of developmental disorder

**The student, at the end of the course should be able to perform under supervision, the following:**

1. Behaviour therapy
2. Family therapy
3. Interpersonal therapy
4. Cognitive behaviour therapy and other newer therapies
5. First level psychological intervention for sexual abuse, sexual assault and domestic violence.
6. Genetic counselling

## **Syllabus**

### **Course Contents:**

No limit can be fixed and no fixed number of topics can be prescribed as course contents. The student is expected to know the subject in depth; however emphasis should be on the diseases/health problems most prevalent in that area. Knowledge of recent advances and basic sciences as applicable to his/her speciality should get high priority. Competence in managing behavioural problems commensurate with the speciality must be ensured.

### **The student must acquire knowledge in the following:**

#### **Theoretical concepts:**

1. Neurophysiology and Neuro-chemistry
2. Functional and behavioural neuroanatomy
3. Genetics
4. Psychoneuroendocrinology
5. Psychoneuroimmunology
6. Electrophysiology and cognitive neuroscience
7. Neuro-imaging
8. Memory
9. Sleep and circadian rhythm
10. Learning – Theories
11. Theory of personality
12. Clinical Psychology including Psychometry and Psychodiagnostics
13. Transcultural Psychiatry
14. Research Methodology and Statistics
15. Psychodynamics
16. Psychiatric assessment (including History Taking, Neurological Examination, Mental Status Examination, Investigations, Use of rating scales, etc.).
17. Classification In Psychiatry
18. Organic Psychiatry (including Psychological Features and Clinical Assessment of Cerebrovascular Disorders, Delirium, Epilepsy, Head Injury, Headache, HIV – AIDS, Infections, etc.)
19. Movement Disorders (including Medication-Induced Movement Disorders, etc)
20. Substance Related Disorders (including Alcohol-Related Disorders, Amphetamine-Related Disorders, Caffeine-Related Disorders, Cannabis- Related Disorders, Cocaine-Related Disorders, Hallucinogen-Related Disorders, Inhalant-Related Disorders, Nicotine-Related Disorders,

Opioid- Related Disorders, Phencyclidine-Related Disorders, Sedative-, Hypnotic-, or Anxiolytic-Related Disorders, etc.)

21. Psychosis (including Schizophrenia, Schizophreniform Disorder, Schizoaffective Disorder, Delusional Disorder, Brief Psychotic Disorder, Shared Psychotic Disorder, etc).
22. Mood Disorders (including Depressive Disorders, Bipolar Disorders, Cyclothymic Disorder, etc.)
23. Anxiety Disorders (including Panic Disorder, Agoraphobia, Phobias, Obsessive-Compulsive Disorder, Generalized Anxiety Disorder, etc).
24. Stress and related disorders (Post-traumatic Stress Disorder, Acute Stress Disorder Adjustment Disorder etc.)
25. Somatoform Disorders (including Somatization Disorder, Undifferentiated Somatoform Disorder, Conversion Disorder, Pain Disorder, Hypochondriasis, Body Dysmorphic Disorder, etc.)
26. Factitious Disorders
27. Dissociative Disorders (including Dissociative Amnesia, Dissociative Fugue, Dissociative Identity Disorder, Depersonalization Disorder, etc.)
28. Personality disorders
29. Sexual disorders, gender dysphoria and psychological issues among LGBTQIA+ groups (including Sexual Desire Disorders, Sexual arousal Disorders, Orgasmic Disorders, Sexual Pain Disorders, Vaginismus, Paraphilias, etc)
30. Eating Disorders (including Anorexia Nervosa, Bulimia Nervosa, etc.)
31. Sleep Disorders (including Insomnia, Narcolepsy, Breathing-Related Sleep Disorders, Circadian Rhythm Sleep Disorders, Parasomnias, Nightmare Disorder, Sleep Terror Disorder, Sleepwalking Disorder, etc.)
32. Impulse-Control Disorders (including Intermittent Explosive Disorder, Kleptomania, Pyromania, Pathological Gambling, Trichotillomania, etc
33. Psychosomatic Disorders including Consultation Liaison psychiatry
34. Miscellaneous: Non-compliance, Malingering, Antisocial Behaviour, Borderline Intellectual Functioning, Age-Related Cognitive Decline, Bereavement [including Death], Academic Problems, Occupational Problems, Identity Problems, Religious or Spiritual Problems, Acculturation Problems, Phase of Life Problems, Chronic Fatigue Syndrome, etc.)
35. Abuse (Physical / Sexual) or Neglect Of Child /Adult
36. Culture Bound Syndromes
37. Pre-Menstrual Dysphoric Disorder
38. Perinatal Psychiatry
39. Emergencies In Psychiatry including suicide, its management and medico-legal aspects
40. Psychotherapy
41. Psychopharmacology
42. Electro-Convulsive Therapy, Other brain stimulation methods (rTMS, DBS, tDCS and others) and Neurosurgery
43. Child and Adolescent Psychiatry (including Learning Disorders, Motor Skills Disorder, Communication Disorders, Pervasive Developmental Disorders (Autistic Disorder, Rett's Disorder, Childhood Dis integrative Disorder, Asperger's Disorder), Attention-Deficit/Hyperactivity Disorder,



Conduct Disorder, Oppositional Defiant Disorder, Pica, Tic Disorders, Elimination Disorders, Separation Anxiety Disorder, Selective Mutism, Reactive Attachment Disorder of Infancy or Early Childhood, Stereotypic Movement Disorder, etc.)

44. Intellectual disability
45. Geriatric Psychiatry (including dementia, legal and ethical issues, positive psychiatry in ageing, psychiatric aspects of long term care)
46. Community psychiatry
47. Rehabilitation of psychiatric patients
48. Ethics In Psychiatry
49. Forensic and Legal Psychiatry (including Mental Health Care Act, Persons with Disability Act, Narcotic Drugs and Psychotropic Substance Act etc.)

## **TEACHING AND LEARNING METHODS**

### **Teaching methodology**

1. **Lectures:** Lectures are to be kept to a minimum. They may, however, be employed for teaching certain topics. Lectures may be didactic or integrated. Didactic lectures are of least importance; small group discussion such as seminars, journal clubs, symposia, reviews and guest lecturers should get priority for theoretical knowledge. Bedside teaching, grand rounds, structured interactive group discussions and clinical demonstrations should be the hallmark of clinical/practical learning. The student should have hands-on training in performing various procedures and ability to interpret various tests/investigations. Exposure to newer specialized diagnostic/therapeutic procedures concerning the subject should be given. Self learning tools like assignments and case base learning may be promoted.

The post graduate student should have knowledge of:

- Psycho-pharmacology and broadening the treatment options using medicines.
- Neuro-imaging techniques to understand behaviour and psychiatric illness.
- Community-Psychiatry.
- Functioning of psychiatric hospital.
- Community Psychiatry should go beyond familiarization with the National Mental Health Programme. The post graduate student should have hands on experience with:
  - Training programmes for primary care physician
  - Organizing Mental Health Camps
  - Carrying out Health Education Activities
  - Forensic /Legal Psychiatry
  - Integration of Mental Health Care with General Health Care

2. **Thesis writing:** Thesis writing is compulsory.

3. **Research Methodology:** The student should know the basic concepts of research methodology and biostatistics, plan a research project, understand ethical issues of research especially in

vulnerable groups such as those with mental illness and intellectual disability as well as minors, be able to retrieve information from the library, use reference managers .

4. **Teaching skills:** The post graduate students shall be required to participate in the teaching and training programme of undergraduate students and interns.
5. **Continuing Medical Education Programmes (CME):** Each student should attend at least two CME programmes, in 3 years.
6. **Conferences:** The student should attend courses, conferences and seminars relevant to the speciality, and encouraged to make presentation in conferences
7. A post graduate student of a postgraduate degree course in broad specialities/super specialities would be required to present one poster presentation, to read one paper at a national/state conference and to present one research paper which should be published/accepted for publication/sent for publication during the period of his postgraduate studies so as to make him eligible to appear at the postgraduate degree examination.
8. **Seminars:** There should be a weekly seminar in which the PG students present material on assigned topics in rotation. It should be followed by discussion in which all trainees are supposed to participate. Generally, the topics covered should be those that supplement the formal teaching programme.
9. **Case Conference:** A case conference should be held every week where a PG student prepares and presents a case of academic interest by rotation and it is attended by all the members of the Department.
10. **Psychosomatic Rounds:** This is a presentation of a case of psychosomatic illness, or a medical illness with pronounced psychiatric problems. It should be held weekly in collaboration with various departments and attended by the faculty and the PG students of psychiatry and the concerned Department.
11. **Research Forum:** There should be a monthly meeting of one hour each in which the PG students present their plan of research as well as the report of the completed work of their projects. The other research scholars/staff in the department also may participate in it. The faculty, PG students and the non-medical professionals should make critical comments and suggestions.
12. **Journal Club:** A monthly meeting of Journal club should be held in which a senior PG student presents a critical evaluation of a research paper from a journal. All PG students are expected to attend.
13. **Case presentations:** All new in-patients and outpatients cases should be routinely reviewed with one of the Consultants. In addition, the PG student is required to present case material at routine rounds and other case conferences. Senior PG students will conduct evening classes on clinical topics.
14. **Extra-mural activities:** The post graduate students are encouraged to attend certain academic activities in allied subjects held outside parent department e.g. seminars/lectures held at Departments of Sociology, Psychology, Neurology etc.
15. **Psychotherapy tutorials:** These should be held in small groups supervised by a consultant, in which a case is presented by a PG student and psychotherapeutic management discussed.

## 16. **Rotation:**

### **Clinical Postings**

- A major tenure of posting should be in General Psychiatry. It should include care of in-patients, out-patients, special clinics and maintenance of case records for both in and out patients.
- Exposure to the following areas should be given :-

### **Schedule of clinical postings for M.D Psychiatry \*(36 months) Area/Speciality**

	No.of Months
Psychiatry (All Subsections) Ward and OPD (Concurrent)	25
Neurology	1
Consultation Liaison Psychiatry	3
Clinical Psychology	1
Child and Adolescent Psychiatry	3
Community psychiatry	3

\* The stated duration can be subjected to minor modifications depending on available resources

# *Exposure to community based services should be integral to various postings.*

### **Applicable only for trainees in General Hospital Psychiatric units:**

(Facilities for these need to be arranged)

The postgraduate student in Psychiatric hospitals would have extended period of exposure to consultation - liaison psychiatry and other medical specialities. Exposure to community based services should be integral part of various postings. The post graduate student shall be given full responsibility for patient care and record keeping under the supervision of the senior PG students and consultants. The post graduate student shall also take patients for psychological interventions in an individual as well as group setting. S/he must complete a minimum of 100 hours of supervised psychological interventions.

### ● **Inter-Unit Rotation of posting**

Inter-unit rotation in the department should be done for a period of up to one year (divided during the first year and third year while the post graduate student stays in the parent unit throughout the duration of his thesis work).

## 17. **Clinical meetings:**

There should be intra - and inter - departmental meetings for discussing the uncommon / interesting medical problems.

#### **18. Log book:**

Each student must be asked to present a specified number of cases for clinical discussion, perform procedures/present seminars/review articles from various journals in inter-unit/interdepartmental teaching sessions. They should be entered in a Log Book and signed by the authorized teacher and Head of Department. The Log Book can be an electronic Log book (e-log book) and the information can be converted as PDF in printable format, if needed.

19. The Department should encourage e-learning activities.

**During the training programme, patient safety is of paramount importance, therefore, skills are to be learnt initially on the models, later to be performed under supervision followed by performing independently. For this purpose, provision of clinical skills laboratories in medical colleges is mandatory. Objective structured clinical examination (OSCE) modules may be developed and used in teaching.**

## **ASSESSMENTS**

**FORMATIVE ASSESSMENT**, ie., assessment during the training

Formative assessment should be continual and should assess medical knowledge, patient care, procedural & academic skills, interpersonal skills, professionalism, self directed learning and ability to practice in the system.

Quarterly assessment during the MD training should be based on:

1. Journal based / recent advances learning
2. Patient based /Laboratory or Skill based learning
3. Self directed learning and teaching
4. Departmental and interdepartmental learning activity
5. External and Outreach Activities / CMEs
6. Professionalism and teamwork

**The student to be assessed periodically as per categories listed in postgraduate student appraisal form (Annexure I).**

**SUMMATIVE ASSESSMENT**, ie., at the end of training

The summative examination would be carried out as per the rules given in POSTGRADUATE MEDICAL EDUCATION REGULATIONS, 2000.

The examination shall be in three parts:

## **1. Thesis**

Thesis shall be submitted at least six months before the Theory and Clinical / Practical examination.

The thesis shall be examined by a minimum of three examiners; one internal and two external examiners, who shall not be the examiners for Theory and Clinical examination. A post graduate student shall be allowed to appear for the Theory and Practical/Clinical examination only after the acceptance of the Thesis by the examiners.

## **2. Theory Examination:**

There shall be four papers each of three hours duration.

<b>Paper I:</b>	Basic Sciences as related to Psychiatry
<b>Paper II:</b>	Clinical Psychiatry
<b>Paper III:</b>	Psychiatric Specialities
<b>Paper IV:</b>	Recent Advances (Advances Published in the Recognised National & International Psychiatry Journals, Textbooks & NMC guidelines, from the time period that spans from 12 Weeks Prior to the Final University Psychiatry Examination up to the Preceding Five Years)

## **3. Clinical/Practical and Oral/viva voce examination should consist of:**

- Presentation of long case of Psychiatry
- Neurology long case
- Two short case Psychiatry
- Viva –voce with paedogogy

Due importance should be given to Log Book Records and day-to-day observation during the training.

## **Recommended Reading Books**

**(latest edition)**

1. Textbook of Psychiatry Publisher: Lippincott Williams and Wilkins, Editors: Benjamin James Sadock, Virginia Alcott Sadock, Pedro Ruiz
2. Kaplan and Sadock's Synopsis of Psychiatry, Editor: RJ Boland, ML Verduin, P Ruiz; Publisher: Wolters Kluver India
3. Introduction to Psychology by Clifford T. Morgan Editors: Clifford T Morgan, Richard A King, John R Weiss, John Schopler, Publisher: MC Graw Hill
4. New Oxford Textbook of Psychiatry Edited by: John R. Geddes, Nancy C. Andreas and Guy M. Goodwin, Publisher: Oxford

5. Stahl's Essential Psychopharmacology: Neuroscientific Basis and Practical Applications,  
Editor: Stephen M Stahl, Publisher: Cambridge
6. Forensic Psychiatry: RC Jiloha, D Kataria, P Kukreti (Jaypee)
7. ECT administration manual, NIMHANS Editors: Bangalore N Gangadhar, A Shyam Sundar,  
Jagadisha Thirthalli, Shivarama Varambally, Kesavan Muralidharan, C Naveen Kumar,  
Preeti Sinha, Biju Viswanath, Publisher: NIMHANS
8. Community Psychiatry in India (Eds Chavan, Gupta, Arun, Sidana, Jadav) Jaypee.
9. Fish's Clinical Psychopathology – Signs and Symptoms In Psychiatry By Patricia Casey, Editor:  
Patricia Casey, Brendan Kelly, Publisher: Tree Life Media
10. Sims Symptoms in the Mind: Textbook of Descriptive psychopathology, Editor: Femi  
Oyeboode, Publisher: Elsevier
11. Bickerstaff's Neurological Examination in Clinical practice, Editor: Kameshwar Prasad, Ravi  
Yadav, John Spillane, Publisher: Wiley
12. A Primer of Research, Publication and Presentation: Sandeep Grover, Shahul Amin,  
Jaypee
13. Maudsley's Prescribing Guidelines in Psychiatry, Editors: Author: David M. Taylor,  
Thomas R. E. Barnes, Allen Young, Publisher: Wiley
14. Lishman's Organic Psychiatry Editor: Anthony S. David, Simon Fleminger, Michael D.  
Kopelman, Publisher: Wiley Blackwell
15. Kaufman's Clinical Neurology for Psychiatrists, Elsevier.

## **Journals**

03-05 international Journals and 02 national (all indexed PubMed / Scopus /Web of Science) journals.

## Appendix 1

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