

PRAVARA INSTITUTE OF MEDICAL SCIENCES (DEEMED TO BE UNIVERSITY)

Loni, Tal. Rahata, Dist. Ahmednagar 413736 NAAC Re-accrediated with 'A' Grade

SYLLABUS

PG Programme- MD (PAEDIATRICS)

(As per MCI Regulations Governing PG Programme 2000 Amended up to May, 2018)

I. PREAMBLE

The purpose of PG education is to create specialists who would provide high quality health care and advance the cause of science through research & training.

A post graduate student after undergoing the required training should be able to deal effectively with the needs of the community and should be competent to handle the problems related to his specialty including recent advances. S/He should also acquire skills in teaching of medical/Para-medical students.

The purpose of this document is to provide teachers and learners illustrative guidelines to achieve defined outcomes through learning and assessment. This document was prepared by various subject-content specialists. The Reconciliation Board of the Academic Committee has attempted to render uniformity without compromise to purpose and content of the document. Compromise in purity of syntax has been made in order to preserve the purpose and content. This has necessitated retention of "domains of learning" under the heading "competencies".

II. SUBJECT SPECIFIC OBJECTIVES

The objectives of MD Course in Paediatrics are to produce a competent pediatrician who:

- Recognizes the health needs of infants, children and adolescents and carries out professional obligations in keeping with principles of the National Health Policy and professional ethics
- Has acquired the competencies pertaining to Paediatrics that are required to be practiced in the community and at all levels of health system
- Has acquired skills in effectively communicating with the child, family and the community
- Is aware of contemporary advances and developments in medical sciences as related to child health
- Is oriented to principles of research methodology
- Has acquired skills in educating medical and paramedical professionals
- Is able to recognize mental conditions and collaborate with Psychiatrists/Child Psychologists for the treatment of such patients

III. SUBJECT SPECIFIC COMPETENCIES

A. Cognitive domain

At the end of the MD course in Paediatrics, the students should be able to:

- 1. Recognize the key importance of child health in the context of the health priority of country
- 2. Practice the specialty of Paediatrics in keeping with the principles of professional ethics
- 3. Identify social, economic, environmental, biological and emotional determinants of child and adolescent health, and institute diagnostic, therapeutic, rehabilitative, preventive and promotive measures to provide holistic care to children
- 4. Recognize the importance of growth and development as the foundation of Paediatrics and help each child realize her/his optimal potential in this regard
- 5. Take detailed history; perform full physical examination including neurodevelopment and behavioral assessment and anthropometric measurements in the child and make clinical diagnosis
- 6. Perform relevant investigative and therapeutic procedures for the paediatric patient
- 7. Interpret important imaging and laboratory results
- 8. Diagnose illness based on the analysis of history, physical examination and investigations
- 9. Plan and deliver comprehensive treatment for illness using principles of rational drug therapy
- 10. Plan and advice measures for the prevention of childhood disease and disability
- 11. Plan rehabilitation of children with chronic illness and handicap and those with special needs
- 12. Manage childhood emergencies efficiently
- 13. Provide comprehensive care to normal, 'at risk' and sick neonates
- 14. Demonstrate skills in documentation of case details, and of morbidity and mortality data relevant to the assigned situation
- 15. Recognize the emotional and behavioral characteristics of children, and keep these fundamental attributes in focus while dealing with them
- 16. Demonstrate empathy and humane approach towards patients and their families and keep their sensibilities in high esteem
- 17. Demonstrate communication skills of a high order in explaining management and prognosis, providing counseling and giving health education messages to patients, families and communities
- 18. Develop skills as a self-directed learner. Recognize continuing educational needs; use appropriate learning resources and critically analyze published literature in order to practice evidence-based Paediatrics
- 19. Demonstrate competence in basic concepts of research methodology and epidemiology
- 20. Facilitate learning of medical/nursing students, practicing physicians, paramedical health workers and other providers as a teacher-trainer
- 21. Implement National Health Programs, effectively and responsibly
- 22. Organize and supervise the desired managerial and leadership skills
- 23. Function as a productive member of a team engaged in health car, research and education.

24. Recognize mental conditions, characterized by self absorption, reduced ability to respond, abnormal functioning in social interaction with or without repetitive behavior, poor communication (autism) and collaborate with Psychiatrists/Child Psychologists for the treatment of such patients.

All PG students joining the course should have an orientation session to acquaint them with the requirements and other details. A plan for orientation session has been given at Annexure 1.

B. Affective Domain:

- 1. Should be able to function as a part of a 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. 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 and second opinion.
- Develop communication skills to word 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 have acquired following skills:

I. History and Examination

The student must gain proficiency in eliciting, processing and systemically presenting Paediatrics history and examination with due emphasis of the important and minimization of less important facts. The following skills must be achieved:

- i) Recognition and demonstration of physical findings
- ii) Recording of height, weight, head circumference and mid arm circumference and interpretation of these parameters using growth reference standard assessment of nutritional status and growth
- iii) Assessment of pubertal growth
- iv) Complete development assessment by history and physical examination, and recognizing developmental disabilities, including autism
- v) Systematic examination
- vi) Neonatal examination including gestation assessment by physical neurological criteria
- vii) Examination of the fundus and the ear-drum
- viii) Skills related to IMNCI and IYCF

II. Monitoring Skills

Non-invasive monitoring of blood pressure, pulse and respiratory rates, saturation; ECG

III.Investigative Procedures

- i) Venous, capillary and arterial blood sampling using appropriate precautions
- ii) Pleural, peritoneal, pericardial aspiration; subdural, ventricular and lumbar puncture
- iii) Tuberculin test
- iv) Biopsy of liver and kidney
- v) Urethral catheterization and suprapubic tap
- vi) Gastric content aspiration

IV. Therapeutic Skills

- i) Breast feeding assessment and counseling; management of common problems
- ii) Establishment of central and peripheral vascular access; CVP monitoring
- iii) Administration of injections using safe injection practices
- iv) Determination of volume and composition of intravenous fluids and heir administration
- v) Neonatal and Pediatric basic and advanced life support
- vi) Oxygen administration, CPAP and nebulization therapy
- vii) Blood and blood component therapy
- viii) Intraosseous fluid administration
- ix) Phototherapy, umbilical artery and venous catheterization and exchange transfusion
- x) Nasogastric feeding
- xi) Common dressings and abscess drainage; intercostal tube insertion
- xii) Basic principles of rehabilitation
- xiii) Peritoneal dialysis
- xiv) Mechanical ventilation

V. Bed side investigations, including

- i) Complete blood counts, micro ESR, peripheral smear
- ii) Urinalysis
- iii) Stool microscopy and hanging drop
- iv) Examination of CSF and other body fluids
- v) Blood sugar
- vi) Shake test on gastric aspirate
- vii) Gram stain, ZN stain

VI. Patient Management Skills

- Proficiency in management of pediatric emergencies, including emergency triaging
- ii) Drawing and executing patient management plan and long term care
- iii) Documenting patient records on day to day basis and problem oriented medical record
- iv) Care of a normal and sick newborn, management of neonatal disorders hypothermia, sepsis, convulsions, jaundice, metabolic problems
- v) Identifying need for timely referral to appropriate departments/health facility and pre-transport stabilization of the sick child

VII. Communication Skills; Attitudes; Professionalism

- i) Communicating with parents/child about nature of illness and management plan prognostication, breaking bad news
- ii) Counseling parents on breast feeding, nutrition, immunization, disease prevention, promoting healthy life style
- iii) Genetic counseling
- iv) Communication and relationship with colleagues, nurses and paramedical workers
- v) Appropriate relation with pharmaceutical industry
- vi) Health economics
- vii) Professional and research ethics

VIII. Interpretation of Investigations

- i. Plan x-ray chest, abdomen, skeletal system
- ii. Contrast radiological studies: Barium swallow, barium meal, barium enema, MCU
- iii. Ultrasound skull and abdomen
- iv. Histopathological, biochemical and microbiological investigations
- v. CT Scan and MRI (skull, abdomen, chest)
- vi. Electrocardiogram, electroencephalogram
- vii. Arterial and venous blood gases
- viii. **Desirable**: Interpretation of radio-isotope studies, audiogram, neurophysiological studies, (BERA, VER, Electromyography [EMG], Nerve Conduction Velocity [NCV]), lung function tests

IX. Academic Skills

- i. Familiarity with basic research methodology, basic IT skills. Planning the protocol of the thesis, its execution and final report
- ii. Review of literature
- iii. Conducing clinical sessions for undergraduates medical students
- iv. Desirable: writing and presenting a paper. Teaching sessions for nurses and medical workers

IV. SYLLABUS

Course contents:

Guidelines

During the training period, effort must be made that adequate time is spent in discussing child health problems of public health importance in the country or particular region.

Basic Sciences

- Principles of inheritance, chromosomal disorders, single gene disorders, multifactorial / polygenic disorders, genetic diagnosis and prenatal diagnosis, pedigree drawing.
- Embryogenesis of different organ systems especially heart, genitourinary system, gastro-intestinal tract. Applied anatomy and functions of different organ systems.

- Physiology of micturition and defecation; placental physiology; fetal and neonatal circulation; regulation of temperature, blood pressure, acid base balance, fluid electrolyte balance and calcium metabolism.
- Vitamins and their functions.
- Hematopoiesis, hemostasis, bilirubin metabolism.
- Growth and development at different ages, growth charts; puberty and its regulation.
- Nutrition: requirements and sources of various nutrients.
- Pharmacokinetics of common drugs, microbial agents and their epidemiology.
- Basic immunology, biostatistics, clinical epidemiology, ethical and medico-legal issues.
- Teaching methodology and managerial skills.

Understanding the definition, epidemiology, aetiopathogenesis, presentation, complications, differential diagnosis and treatment of the following, but not limited to:

Growth and development

- Principles of growth and development
- Normal growth and development
- Failure to thrive and short stature
- normal growth and development
- sexual maturation and its disturbances
- Autism (as mentioned in objective 24)

Neonatology

- Perinatal care
- Care in the labor room and resuscitation
- Prematurity
- Common transient phenomena
- Infections
- jaundice
- neurologic disorders
- renal disorders
- thermoregulation and its disorders

- low birth weight
- newborn feeding
- respiratory distress
- apnea
- anemia and bleeding disorders
- gastrointestinal disorders
- malformations
- understanding of perinatal medicine

Nutrition

- maternal nutritional disorders; impact on fetal outcome
- infant feeding including complementary feeding
- protein energy malnutrition
- adolescent nutrition
- nutritional management of systemic illness (GI, hepatic, renal illness)
- nutrition for the low birth weight
- breast feeding
- vitamin and mineral deficiencies
- obesity
- parenteral and enteral nutrition

Cardiovascular

- congenital heart diseases(cyanotic and acyanotic)
- infective endocarditis
- disease of myocardium(cardiomyopathy, myocarditis)
- hyperlipidemia in children

rheumatic fever and rheumatic heart disease

infections of upper respiratory tract

- arrhythmia
- diseases of pericardium
- systemic hypertension

Respiratory

- congenital and acquired disorders of nose tonsils and adenoids
- congenital anomalies of lower respiratory tract
- foreign body in larynx trachea and bronchus
- subglottic stenosis (acute, chronic)
- bronchial asthma
- acute pneumonia, bronchiolitis
- recurrent, interstitial pneumonia
- atelectasis
- pleural effusion

trauma to larynx

obstructive sleep apnea

• neoplasm of larynx and trachea

acute upper airway obstruction

- bronchiolitis
- aspiration pneumonia, GER
- suppurative lung disease
- lung cysts, mediastinal mass

Gastrointestinal and liver disease

- disease of oral cavity esophagus
- peptic ulcer disease
- intestinal obstruction disorders
- malabsorption syndrome
- irritable bowel syndrome
- Hirschsprung disease
- Hepatitis
- chronic liver disease
- metabolic diseases of liver

- disorders of deglutition and congenital pyloric stenosis
- acute and chronic pancreatic
- acute and chronic diarrhea
- inflammatory bowel disease
- anorectal malformations
- hepatic failure
- Budd-Chiari syndrome
- cirrhosis and portal hypertension

Nephrologic and Urologic disorders

- acute and chronic glomerulonephritis
- hemolytic uremic syndrome
- VUR and renal scarring
- renal tubular disorders dysfunction
- congenital and hereditary renal disorders
- posterior urethral valves
- undescended testis, hernia, hydrocoele

- xanthema syndrome
- urinary tract infection
- involvement in systemic diseases
- neurogenic bladder, voiding
- renal and bladder stones
- hydronephrosis
- Wilms tumor

Neurologic disorders

- seizure and non-seizure paroxysmal events
- meningitis, encephalitis
- febrile encephalopathies
- neurocysticercosis and other neuroinfestations
- SSPE
- neurometabolic disorders
- neuromuscular disorders
- learning disabilities
- acute flaccid paralysis and AFP surveillance
- movement disorders

- epilepsy, epileptic syndromes
- brain abscess
- Guillain-Barre syndrome
- HIV encephalopathy
- cerebral palsy
- neurodegenerative disorders
- mental retardation
- muscular dystrophies
- malformations
- Tumors

Hematology and Oncology

- deficiency anemias
- aplastic anemia
- Thrombocytopenia
- blood component therapy
- bone marrow transplant/stem cell transplant
- myelodysplastic syndrome
- neuroblastoma

- hemolytic anemias
- pancytopenia
- disorders of hemostasis
- transfusion related infections
- acute and chronic leukemia
- Lymphoma
- hypercoagulable states

Endocrinology

- hypopituitarism/hyperpituitarim
- pubertal disorders
- adrenal insufficiency
- adrenogenital syndromes
- hypoglycemia
- gonadal dysfunction and intersexuality
- diabetes insipidus
- hypo and hyper-thyroidism
- Cushing's syndrome
- diabetes mellitus
- short stature
- obesity

Infections

- bacterial (including tuberculosis)
- fungal
- rickettssial
- protozoal and parasitic
- control of epidemics and infection prevention
- viral (including HIV)
- parasitic
- mycoplasma
- nosocomial infections
- safe disposal of infective material

Emergency and Critical Care

- emergency care of shock
- respiratory failure
- status epilepticus
- fluid and electrolyte disturbances
- poisoning
- scorpion and snake bites

- cardio-respiratory arrest
- acute renal failure
- acute severe asthma
- acid-base disturbances
- accidents
- •

Immunology and Rheumatology

- arthritis (acute and chronic)
- immunodeficiency syndromes

ENT

- acute and chronic otitis media
- post-diphtheritic palatal palsy
- allergic rhinitis/sinusitis

Skin Diseases

- exanthematous illnesses
- pigment disorders
- infections
- atopic, seborrheic dermatitis
- alopecia

Eye problems

- refraction and accommodation
- cataract
- strabismus
- disorders of retina, including tumors

Behavioral and Developmental disorders

- rumination, pica
- sleep disorders
- breath holding spells
- mood disorders
- attention deficit hyperactivity disorders

Social/Community Paediatrics

- national health programs related to child health
- Vaccines: constituents, efficacy, storage, contraindications and adverse reactions
- rationale and methodology of pulse polio immunization
- child labor, abuse, neglect
- disability and rehabilitation
- National policy of child health and population

- vasculitides
- systemic lupus erythematosus
- hearing loss
- acute/chronic tonsillitis/adenoids
- foreign body
- vascular lesions
- vesicobullous disorders
- Steven-Johnson syndrome
- drug rash
- icthyosis
- partial/total loss of vision
- night blindness
- conjunctival and corneal disorders
- enuresis, encopresis
- habit disorders
- anxiety disorders
- temper tantrums
- autism (as mentioned in objective 24)
- IMNCI
- adoption
- rights of the child
- juvenile delinquency
- Investigation of an epidemic
- Principles of prevention, control of infections (food, water, soil, vector borne)

Orthopaedics

- major congenital orthopedic deformities
- common bone tumors

bone and joint infections

Approach to clinical problems

Growth and development

- precocious and delayed puberty
- impaired learning

developmental delay

Neonatology

• low birth weight newborn

• sick newborn

Nutrition

- lactation management and complementary feeding
- failure to thrive

• protein energy malnutrition (underweight, wasting, stunting) and micronutrient deficiencies

Cardiovascular

- Murmur
- congestive heart failure
- arrhythmia

- cyanosis
- systemic hypertension
- shock

GIT and Liver

- Acute diarrhea
- abdominal pain and distension
- vomiting
- gastrointestinal bleeding
- hepatosplenomegaly

- persistent and chronic diarrhea
- ascites
- constipation
- jaundice
- hepatic failure and encephalopathy

Respiratory

- Cough/chronic cough
- wheezy child

Infections

- acute onset pyrexia
- recurrent infections
- nosocomial infections

- hemoptysis
- respiratory distress

Renal

- Hematuria/dysuria
- voiding dysfunctions
- hypertension

- prolonged pyrexia with and
- without localizing signs
- fever withxanthema
- bladder/bowel incontinence
- renal failure (acute and chronic)

Hematology and Oncology

anemia

bleeding

Neurology

- limping child
- paraplegia, quadriplegia
- macrocephaly and microcephaly
- acute flaccid paralysis

- convulsions
- cerebral palsy
- floppy infant
- headache

Endocrine

- thyroid swelling
- obesity

- ambiguous genitalia
- short stature

Miscellaneous

- skin rash
- epistaxis
- arthralgia, arthritis

- lymphadenopathy
- proptosis
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V. TEACHING AND LEARNING METHODS

Postgraduate teaching programme

General principles

Acquisition of practical competencies being the keystone of PG medical education, PG training should be skills oriented. Learning in PG program should be essentially self-directed and primarily emanating from clinical and academic work. The formal sessions are merely meant to supplement this core effort.

Teaching methodology

This should include regular bedside case presentations and demonstrations, didactic lectures, seminars, journal clubs, clinical meetings, and combined conferences with allied departments. The post graduate student should be given the responsibility of managing and caring for patients in a gradual manner under supervision. Department should encourage e-learning activities.

Formal teaching sessions

In addition to bedside teaching rounds, at least 5-hr of formal teaching per week are necessary. The departments may select a mix of the following sessions:

Journal club
 Seminar
 Case discussions
 Interdepartmental case or seminar

 [Cardiology, Pediatric Surgery]

 Once a week

 Once a month

- Attend accredited scientific meetings (CME, symposia, and conferences).
- Additional sessions on resuscitation, basic sciences, biostatistics, research methodology, teaching methodology, hospital waste management, health

economics, medical ethics and legal issues related to pediatric practice are suggested.

- There should be a training program on Research methodology for existing faculty to build capacity to guide research.
- The postgraduate students shall be required to participate in the teaching and training programme of undergraduate students and interns.
- A postgraduate 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.
- Log book: During the training period, the post graduate student should maintain a Log Book indicating the duration of the postings/work done in Pediatric Wards, OPDs and Casualty. This should indicate the procedures assisted and performed, and the teaching sessions attended. The purpose of the Log Book is to:
 - a) Help maintain a record of the work done during training,
 - b) Enable Consultants to have direct information about the work; intervene if necessary,
 - c) Use it to assess the experience gained periodically.

The log book shall be used to aid the internal evaluation of the student. The Log books shall be checked and assessed periodically by the faculty members imparting the training.

Rotations

The postgraduate student should rotate through all the clinical units in the department. In addition, following special rotations should be undertaken:

Mandatory

Neonatology, perinatology Intensive care, emergency

Desirable

Posting in Out Patient Services of the following specialties is recommended Skin Pediatric Surgery

Physical Medicine and Rehabilitation Community

Note: Additionally, the PG students may be sent to allied specialties (Cardiology, Neurology, nephrology *etc.*) depending on facilities available. It should be ensured that the training conforms to the curriculum.

Thesis Objectives

By carrying out a research project and presenting his work in the form of thesis, the student shall be able to:

• identify a relevant research question

- conduct a critical review of literature
- formulate a hypothesis
- determine the most suitable study design
- state the objectives of the study
- prepare a study protocol
- undertake a study according to the protocol
- analyze and interpret research data, and draw conclusions
- write a research paper

Guidelines

While selecting the topic, following should be kept in mind:

- the scope of study is limited to enable its conduct within the resources and time available
- the study must be ethically appropriate
- the emphasis should be on the process of research rather than the results
- the protocol, interim progress and final presentation is made formally to the department
- only one student per teacher/thesis guide

There should be periodic department review of the thesis work, as per following schedule:

End of 6 months Submission of protocol

During 2nd yr Mid-term presentation

6 months prior to examination Final presentation; submission

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 skills laboratories in medical colleges is mandatory.

VI. ASSESSMENT

FORMATIVE ASSESSMENT, ie., assessment to improve learning

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.

General Principles

Internal Assessment should be frequent, cover all domains of learning and used to provide feedback to improve learning; it should also cover professionalism and communication skills. The Internal Assessment should be conducted in theory and practical/clinical examination.

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

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

SUMMATIVE ASSESSMENT, i.e., assessment at the end of training

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

The postgraduate 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

The examinations shall be organized on the basis of 'Grading'or 'Marking system' to evaluate and to certify post graduate student's level of knowledge, skill and competence at the end of the training. Obtaining a minimum of 50% marks in 'Theory' as well as 'Practical' separately shall be mandatory for passing examination as a whole. The examination for M.D./ MS shall be held at the end of 3rd academic year. An academic term shall mean six month's training period.

There shall be four theory papers. Each paper should have 10 short essay questions (SEQ).

Paper I: Basic sciences as applied to Paediatrics

Paper II: Neonatology and community Paediatrics

Paper III: General Paediatrics including advances in Paediatrics relating to Cluster I specialties

Paper IV: Paediatric Medicine including advances in Paediatrics relating to Cluster II specialties

Cluster I: Nutrition, Growth and Development, Immunization, Infectious disease, Genetics, Immunology, Rheumatology, Psychiatry and Behavioral Sciences, Skin, Eye, ENT, Adolescent Health, Critical Care, Accidents and Poisoning

Cluster II: Neurology and Disabilities, Nephrology, Hematology and Oncology, Endocrinology, Gastroenterology and Hematology, Respiratory and Cardiovascular disorders

3. Practical/clinical and Oral/viva voce examination Practical examination

Case I Case II (Newborn) Case III OSCE may be used.

Oral/Viva voce examination on defined areas by each examiner separately. Oral examination shall be comprehensive enough to test the post graduate student's overall knowledge of the subject.

Orientation sessions for PG students joining MD in Paediatrics

This could be spread over 4-5 sessions once or twice a week depending on departmental routine and feasibility.

For all PG students

Orientation to the Hospital: Various Departments and facilities available

- Communication skills: Patients and colleagues
- Literature search
- Basic research methodology
- Protocol writing and thesis

Pediatric PGs

Introduction to Residency in Paediatrics

- Universal precautions and appropriate disposal of hospital waste
- Management of shock
- Congestive cardiac failure
- Normal fluid and electrolyte requirement and their disorders
- Interpretation and management of disorders of acid-base balance
- Evaluation of a sick newborn
- Management of seizures, hypothermia and hypoglycemia in the newborn
- Management of seizures and status epilepticus
- Management of comatose patients
- Hospital management of severe PEM
- Acute kidney injury
- Fulminant hepatic failure
- Management of respiratory distress
- Management of acute diarrhea
- Approach to a bleeding child and its management

Rational antibiotic therapy

VII. MANDATORY COMPLIANCE

1 The Model Weekly Time Table for Teaching learning activities is enclosed as : Annexure – I

2 Mandatory compliance of a PG student in T.L. process and CIA during the three year of study are given in : Annexure – II

3 The units for Quarterly assessment for CIA is given in : Annexure – III

4 Post Graduate student Quarterly Appraisal form for CIA is enclosed as : Annexure – IV

5 Mandatory Requirements to be eligible to appear for the University Summative Evaluation Examination is given in : Annexure – V

The Proforma of the Certificate on Attendance, Training Completion, Publication and Presentation Research / Poster / oral submission of Dissertation and present of all theory practical fee to be duly filled in and duly signed by PG Guide: Annexure – VI HOD, Finance Officer, Dean of faculty an HOI to be submitted to university COE before the issue of Hall Ticket for final exam is given us

7 The model QP pattern of paper I/II/III/IV, each of 100 marks and of 3 hours duration is enclosed as : Annexure – VII

8 The model Blue print for setting of Question papers and proper verbs/ phrases to be used in QP setting is given in : Annexure – VIII

9 The model marks list for practical and Vivavoce for PG medical MD/MS/ examination is enclosed as.

Annexure – IX

VIII. RECOMMENDED READING:

Books (latest edition)

- 1. Nelson's Textbook of Pediatrics, Kliegman et al (Editors)
- 2. Manual of Neonatal care, Cloherty
- 3. Nada's Pediatric Cardiology, Kaene
- 4. PG Textbook of Pediatrics, IAP P Gupta et al (Editors)
- 5. Clinical Methods in Pediatrics, P Gupta
- 6. Care of the newborn, Meharban Singh

Journals

03-05 international Journals and 02 national (all indexed) journals

P.G. Teaching Time Table – Model

Clinical postings (OPD – IPD Duties Ward Rounds, Casualty posting, ICU posting, posting to support Departments like Radiology, Anesthesia CCL, Pathology, FMT, Postings to field work and PHCs Camps and other postings as per provisions of MCI, are mandatory on all week Day as per posting.

Day of the week	Time 03 to 5 PM
Monday	Journal Club
Tuesday	Case presentation / Micro Clinic- Patient based Training
Wednesday	Seminar / GD / Panel Discussion
Thursday	Lecture by Faculty on select Topics
Friday	Clinical Meet / CPC / CME
Saturday	Guest Lecture by Experts / Skill Lab or Simulation Lab
Sunday	Medical Camps / Blood Donation Camp / Other types of
(Select ones)	Camps

Note

- 1. The Dept may select suitable days for a particular task assigned. But all of 7 tasks per week are a must
- 2. All the PG Teachers, PG students must attend these PG TLE Activities.
- **3.** Attendance for these activities shall be maintained at the Department and Institutions. Implementation of the MCI Regulations, Syllabus and Time Table is the responsibility of HOD / HOI.

HOD HOI DEAN OF FACULTY REGISTRAR

Annexure - II

Mandatory Compliance of a PG student in Teaching – Learning Activities

As per MCI Regulations Syllabus and Advisory

Sr.			Number per		Number per	Total Number
No.		Activities to be carried at by a PG student	I st year	II nd Year	III rd year	(Minimum)
NO.		•	(Minimum)		(Minimum)	For 3 years
1		Presentation of Journal Articles in	12	12	6	30
		Journal club				
2	a	Case Presentation / Clinic	4	8	8	20
	b	Skill Lab & Simulation	4	4	4	12
3	a	Presentation of Seminars	4	4	4	12
	b	Leading a Group Discussion on a select	4	4	4	12
		Topic				
	c	Assignment submission	4	4	4	12
4	a	Lectures / Tutorials to UG students	4	4	4	12
		/panel Discussion				
	b	Clinical meeting CMC/ CPC	12	12	12	36
	c	BLS	1			1
	d	ACLS	1			1
5		Medical Camps Health Checkup at	6	6	6	18
		Villages / Schools/ Blood Donation / etc.				
6	a	Orientation Programme	1	1	1	3
	b	Research Methodology Workshop	1			1
	C	Presentation of synopsis of the Thesis /	1			1
		Dissertation				
	d	Presentation of Mid Term work of Thesis		1		1
		/ Dissertation				
	e	Presentation of final Draft of Dissertation			1	1
		/ Thesis				
	f	Presentation of Research Article		0 or 1	0 or 1	1
	g	Publication of an Article		0 or 1	0 or 1	1 or 2
7		LOG Book	1 (a)	1 (b)	1 (c)	1 a+b+c
8		CIA	4	4	4	12
9		Any other Activity Specified by Dept.				

Note :- 1. The Department may conduct periodic preparatory tests in Theory / Practical/Clinicals and Vivavoce. Quiz and MCQ test may to be adopted

2. The 12th CIA may also include a preparation examination on the model of university examination as a training cum assessment

HOD HOI DEAN OF FACULTY REGISTRAR

Annexure – III

Units of Quarterly Assessment of Every student (Internal) Formative Assessment – Quarterly Assessment (Total 12 CIAs)

As per Annexure III.

1. Journal Based / Recent Advances learning

(Bases on Journal Clubs / Select Article Presentation , Review Article preparation and presentation)

2. Patient Based and Laboratory Based and skill Based learning

(Based on clinical Posting – OPD / IPD Ward Rounds/ casualty/ Case Examination/presentation /Diagnosis / Interpretation /of Clinical Diagnostics/ Differential Diagnosis, Prognosis/ Morbidity/ Mortality/ Community Medicine/ Promotion/ prevention/ Control/Prophylaxis/ Epidemiology/ Simulation Studies/ Skill Based Studies and so on)

3. Self Directed Learning and Teaching

(Seminars Panel Discussion Group Discussion, Assignments, Case studies, Preparation of Charts and Models etc., Role Play, Debates, Moot courts, etc)

4. Departmental and Inter Departmental Learning Activities.

(Participation in UG/PG teaching / Horizontal and Vertical Integrated Lectures, Clinical meeting / CPC / CME)

5. External and out research Activities

(Participation in Camps, Posting and Visit to PHCs, Satellite clinics, Mobile Clinics, Health checkup Camps, Blood Donation Camps, Immunization Camps school Visits. Crisis / Disaster Management, Celebration of Commemorative Days and soon)

- 6. Thesis / Dissertation Research Work related to selected Topic
- 7. a) Log Book maintenance/ Portfolio management To maintain LOG Book or portfolio management of all the TL Activities

b) Presentation / Publications of Research Article

No.		Particulars	Minimum for 3 months
1	1 Journal based Recent Advance Learning- Presentation of		3
		select Article in Journal clubs	
2	a	Patient Based laboratory or Skill based learning- Case	1 (1 st year)
		presentation / Clinic	2 (2 nd & 3 rd year)
	b	Skill Lab / Simulation Lab Work	1
3	a	Self Directed Learning & Teaching- Presentation of	1
		Seminar	
	b	Leading a Group Discussion on select Topic in GD	1
	c	Assignment Submission	1
4	a	Lecture / Tutorials / Panel Discussions with UG students	1
	b	Clinical Meetings (CME's) CPC/Dept. meeting	3
5		Medical Camps	1
6		Dissertation Work Research methodology workshop	Yes / No
7 Log Book & Attendance		Log Book & Attendance	Yes / No
8		Any other Activity Prescribed (T/P/Viva)	Yes / No

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Annexure IV

Postgraduate Students Appraisal Form Pre / Para /Clinical Disciplines – MD/MS Degree

1. Journal based / Recent advances learning 2. Patient based/Laboratory or Skill based 1. Journal based / Recent advances learning 2. Patient based/Laboratory or Skill based 1. Journal based / Recent advances learning 2. Patient based/Laboratory or Skill based 1. Journal based / Recent advances learning 2. Patient based/Laboratory or Skill based 1. Journal based / Recent advances learning and teaching 2. Patient based/Laboratory or Skill based 3. Self-directed learning and teaching 4. Departmental and interdepartmental 4. learning activity 5. External and Outreach Activities / CMEs 6. Thesis / Research work 7. Log Book Maintenance 8. Performance in Theory/Practical/Viva voce 9. Tests 1. Overall Assessment 1. Overall Assessment 2. Publications of Research Article 9. Presentation of Research Article 9. Presentation of Research Article 9. Presentation of Research Profile 1. Yes/No 1. Remarks* 1. Journal based / Recent advances learning and teaching learning and teaching learning activity and teaching learning and teaching learning learning activity learning lea		Name of the Department/Unit : Name of the PG Student : Period of Training : FRO Quarterly Assessment (1								ll No	.:	
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. Thesis / Research work 7. Log Book Maintenance 8. Performance in Theory/Practical/Viva voce 8. Tests Overall Assessment 9. Publications of Research Article No • Presentation of Research Article • The student has complied with mandatory requirement for quarterly assessment & presentation of Research Profile Yes/No Remarks* *REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended. SIGNATURE OF ASSESSEE SIGNATURE OF HOD		PARTICULARS				Satisfactory						Remarks
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. Thesis / Research work 7. Log Book Maintenance 8. Performance in Theory/Practical/Viva voce Tests Overall Assessment • Publications of Research Article No • Presentation of Research Article • The student has complied with mandatory requirement for quarterly assessment & presentation of Research Profile Yes/No Remarks* *REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended. SIGNATURE OF ASSESSEE SIGNATURE OF HOD			1	2	3	4	5	6	7	8	9	
2. learning 3. Self-directed learning and teaching 4. Departmental and interdepartmental learning activity 5. External and Outreach Activities / CMEs 6. Thesis / Research work 7. Log Book Maintenance 8. Performance in Theory/Practical/Viva voce Tests Overall Assessment • Publications of Research Article • Presentation of Research Article • The student has complied with mandatory requirement for quarterly assessment & presentation of Research Profile Yes/No Remarks* *REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended. SIGNATURE OF ASSESSEE SIGNATURE OF HOD	1.	•										
4. Departmental and interdepartmental learning activity 5. External and Outreach Activities / CMEs 6. Thesis / Research work 7. Log Book Maintenance 8. Performance in Theory/Practical/Viva voce Tests Overall Assessment • Publications of Research Article • The student has complied with mandatory requirement for quarterly assessment & presentation of Research Profile Yes/No Remarks* *REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended. SIGNATURE OF ASSESSEE SIGNATURE OF HOD		learning										
Sexternal and Outreach Activities / CMEs	3.											
6. Thesis / Research work 7. Log Book Maintenance 8. Performance in Theory/Practical/Viva voce Tests Overall Assessment • Publications of Research Article No • Presentation of Research Article • The student has complied with mandatory requirement for quarterly assessment & presentation of Research Profile Yes/No Remarks* *REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended. SIGNATURE OF ASSESSEE SIGNATURE OF HOD		learning activity										
7. Log Book Maintenance 8. Performance in Theory/Practical/Viva voce Tests Overall Assessment • Publications of Research Article No • Presentation of Research Article • The student has complied with mandatory requirement for quarterly assessment & presentation of Research Profile Yes/No Remarks* *REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended. SIGNATURE OF ASSESSEE SIGNATURE OF HOD												
8. Performance in Theory/Practical/Viva voce Tests Overall Assessment • Publications of Research Article No • Presentation of Research Article • The student has complied with mandatory requirement for quarterly assessment & presentation of Research Profile Yes/No Remarks* *REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended. SIGNATURE OF ASSESSEE SIGNATURE OF HOD		Thesis / Research work										
Publications of Research Article No Presentation of Research Article The student has complied with mandatory requirement for quarterly assessment & presentation of Research Profile Yes/No Remarks* *REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended. SIGNATURE OF ASSESSEE SIGNATURE OF HOD	7.											
Publications of Research Article No Presentation of Research Article The student has complied with mandatory requirement for quarterly assessment & presentation of Research Profile Yes/No Remarks* *REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended. SIGNATURE OF ASSESSEE SIGNATURE OF HOD	8.	•										
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student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended. SIGNATURE OF ASSESSEE SIGNATURE OF HOD		 Presentation of Research Article The student has complied with man assessment & presentation of Research Yes/No 		•	-	iren	nent	for q	ıuar	terly		 -
		student to be mentioned. For score less the suggested. Individual feedback trecommended.	ıan 4	in	any (radu	cate 1ate	gory st	y, ren uden	nedi t is	ation s st	n must rongly	
HEAD OF THE INSTITUTION		HEAD OF THE	INST	<u>ITU</u>	<u>TIO</u> I	<u>N_</u>						_

Annexure - V

Mandatory Requirements to be eligible to eligible to appear for university Summative Examination / Evaluation – As per MCI Regulations. (As per MCI Medical Education Regulation 2000, amended from time to time till date)

- 1. Minimum percent of Attence as per MCI Regulations.
- 2. Satisfactory performance in 12 CIA conducted and certified by HOD HOI and PG Guide.
- 3. Certificate from F.O. stating that all the fees due from the student are paid and credited to PIMS-DU A/.c
- 4. Presentation of a Research Article / Poster in a national / state level conference /Seminar / Workshop.
- 5. Publication of a Research Articles as first author in (indexed in supus or web of science or as fixe by MCI Regulations and visited by UGC (ARE list).
- 6. a) Thesis Finalisation of Topic and Title submission of Synopsis following IEC clearance within 6 months of Adm. Topics
 - b) After II year of a Admission or 3 terms Midterm Review.
 - c) Thesis to be submitted at least 6 months before final examination.
 - d)Thesis to be examined by 3 Examiners. (1 Internal and 2 External PG Examiners)
 - e) Its Acceptance is a must for appearing for University T & P Exam

Note:- HOD & HOI shall ensure provisions of 1,2,3,4,5,6 a,b,c. The COE shall ensure provisions of 1,2,3,4,5,6 a,b,c,d,e & e as per MCI Regulations

HEAD OF DEPARTMENT HEAD OF INSTITUTION DEAN OF FACULTY REGISTRAR

		Page 22 MD (Paediatrics)
		Annexure - VI
Ref. No.		Date:
Complaince to MCI's Regu	ulations Governing Post Grad Faculty	luate Programme in Medical
Department of	PG Programme: N	MD/ MS in
Name of Candidate:		, JR-III
	Date of Admi	
Publication & P Submission of Diss It is hereby certi at R academic years and fulfilled	Certification on endance and Training Completesentation of Research Articertation & Payment of All type fied that the said candidate ural Medical College has contained the prevailing provisions of the date of PMT, PIMS-DU.	cles (Poster/ Oral) pes of prescribed fees te JR-III in the Dept. of mpleted 6 academic terms/ 3 me MCI Regulations governing
1. Attendance Fulfillme	nt * % Attendance	Remark – Eligibility
I Academic Term		
II Academic Term		
III Academic Term		
IV Academic Term		
V Academic Term VI Academic Term		
Overall fulfillment		Fulfilled / Not
Overall fullilliment		Fulfilled
including imparted train	ning, assignment, fulltime resp	cademic term, for 6 terms/ 3 years consibilities and participation in all assessment and so on as per MCI
	ed as per MCI Regulations	9
	management and treatment of	patients entrusted for their No
care Verified by Dr.		Certified by Dr.
3. Successful participation department for UG and	on in teaching and training pro	ogrammes organized by the
	ated in Seminars, Journal Clubs Meetings, CME Ward Round, C the timetable.	*
5. Participated in trainin	g sessions in diagnostics, me and allied clinical specialties	
	the PG students in 12 CIAs	(Conducted quarterly) are

satisfactory as per appraisal proforma as per MCI Regulations.

	Page 23 MD (Paediatrics)
7.	Presented one research poster and one research article (oral) in a Seminar/
	Symposia/ Workshop/ Conference (National/State). The certificates for presentation of paper/ poster are enclosed.
8.	Published one research article in a scientific journal as per norms. The copy of
	the published research article is enclosed.
9.	Submitted a Dissertation entitled
	and and a sold an and Du
	under the guidance of Dr.
10.	Paid all the fees (tution fees and other fees) vide receipt No for
	all 3 years.
11.	Produced NOC from all the sections of PMT PIMS-DU concerned about "NO DUES"
12.	Paid Examination fees of Rs vide Challan/ Receipt No.
	dated issued by Finance Officer PIMS-DU.
aspe of R Dear per i Acco	hereby declared that the all the duly certified and verified documents, related to the cts mentioned above, are in the custody of department concerned and student section tural Medical College with due authentication and signature of concerned HOD/m/Principal/ Dean of Faculty) and will be made available for any MCI inspection as norms and Regulations. Ordingly He/She is eligible/ not eligible for appearing in final year PG examination er the MCI Regulations governing PG Programmes.
	Guide Seal Head of the Department Dr
Veri	fied and certified that all types of prescribed fees and fines PMT, PIMS-DU,

College, Hostel & Others mentioned at sl.no. 10, 11, 12 are paid by the student and credited to the accounts of PMT & PIMS-DU.

Seal

Finance Officer
PIMS-DU

Verified the relevant documents and certify that the candidate is eligible to appear for final year PG Examination as per MCI Regulations and rules of PIMS-DU.

Dean Faculty of Medicine	Seal	Dean Rural Medical College
Ref	For Officer Use Only	Date:

The HOD, HOI and Dean have certified that the

- a. Candidate is eligible to appear for PG Theory and Practical/ Clinical Examination as per MCI Regulations. F.O. has certified that all the fees has been credited to PMT, PIMS-DU Accounts.
- b. The Dissertation submitted has been evaluated by external examiners and then have approved the same for acceptance as per MCI Regulations.
- c. Hence the candidate be permitted to appear for the PG examinations (Theory & Practical/ Clinical) scheduled in the month of ______ year _____.

Controller of Examinations



Submitted for perusal and approval

Vice Chancellor

Annexure - VII

PRAVARA INSTITUTE OF MEDICAL SCIENCES (Deemed to be University)

Post Graduate	Degree in	Paediatrics	(MD)

Examination	20
Papar _ I/ II/ II/ IV	

Paper Title : _____ Date: / /20

Marks : 100 Time:

Instructions to candidate:

- 1) All questions are compulsory
- 2) Answer written in illegible handwriting will not be assessed.
- 3) Write answers on both sides of answer paper.
- 4) Neat diagrams must be drawn wherever necessary.
- 5) Write prescription where indicated, and in the use of drugs their doses should be given.

Que. 1	Marks 10
Que. 2	Marks 10
Que. 3	Marks 10
Que. 4	Marks 10
Que. 5	Marks 10
Que. 6	Marks 10
Que. 7	Marks 10
Que. 8	Marks 10
Que. 9	Marks 10
Que. 10	Marks 10

Annexure - VIII

Table 1: Showing BLUEPRINTING for theory paper setting

The number of Questions & their distribution of marks shall be as per MCI model **Question Paper [only Illustration]**

LAQ/ SAQ and their Marks

LEVEL	Q	Q	Q	Q	Q	Q	Q	Total
LEVEL	Mark	1 Otal						
Knowledge								
Comprehension								
Application								
Analysis								
synthesis								
Evaluation								
TOTAL								1000

The Questions (Whether LAQ or SAQ) Must aim at assessing all the 6 domains

Note: This is only an illustration. Actual Number of Questions and their distribution of marks shall be as per model Question Paper of MCI. (i.e. regarding the number of LAQ / SAQ and their marks distribution)

Showing appropriate verbs suitable to level of knowledge for theory Table 2: paper setting

Level	Suggested Verbs				
Knowledge	Define, Describe, Draw, Find, Enumerate, Cite, Name, Identify, List,				
	label, Match, Sequence, Write, State				
Comprehension	Discuss, Conclude, Articulate, Associate, Estimate, Rearrange,				
	Demonstrate understanding, Explain, Generalize, Identify, Illustrate,				
	Interpret, Review, Summarize				
Application	Apply, Choose, Compute, Modify, Solve, Prepare, Produce, Select, Show,				
	Transfer, Use				
Analysis	Analyze, Characterize, Classify, Compare, Contrast, Debate, Diagram,				
	Differentiate, Distinguish, Relate, Categorize				
Synthesis	Compose, Construct, Create, Verify, Determine, Design, Develop,				
	Integrate, Organize, Plan, Produce, Propose, rewrite				
Evaluation	Appraise, Assess, Conclude, Critic, Decide, Evaluate, judge, Justify,				
	Predict, Prioritize, Prove, Rank				

Table 3: Showing examples of theory questions

Sr. No.	Туре	Explanation	Examples
1	Long essay question	 ✓ Question should pose clinical problem that will require student to apply knowledge along with integration with disciplines ✓ Avoid one liner as question ✓ Question stem should be structured ✓ Marking distribution should be provided ✓ Use of proper verbs from higher domains as given in this document ✓ Avoid recall based questions 	
2	Short notes	 ✓ Sample a wider content ✓ Questions should be task oriented ✓ Reasoning questions provide opportunity for testing integration, clinical reasoning and analytical ability of the student 	

Table 4: Showing Objective structured clinical examination [OSCE] typical station

Sr. No.	Type of station	Time allotted	Example	Evaluation
1	Procedure			
2	Response			

Annexure - IX

University Examination Model Marks Sheet For Practical / Clinical Examination and Viva voce

Duration	Max Mark – 400

Illustration only

No.	Type of Examination	Marks Allotted	Scored
1	Long Cases		
2	a) Short cases (No. of small		
	cases and Marks for each cases)		
	1/2/3/4		
	b) Ward Round		
	c) Any other		
3	Spotter / OSPE/ Oral / Vivavoce		
	Sub Divisions		
	i) iv)		
	ii) v)		
	iii) vi)		
	Ground Total	400	

PG F	Examiners	Name	Signature		
1	Chairman Name				
2	Internal Examiner				
3	External Examiner				
4	External Examiner				

Date:-	
Place :-	

Note:- 1) The Number of cases, type of cases and type of practical and orals / vivavoce

and their distributions of marks shall be as per MCI Regulations / Syllabi.

2) The HOD / Chairman / Co Chairman BOS shall ensure at this proforma is prepared as per the MCI Regulations / Syllabi.

Annexure I

Postgraduate Students Appraisal Form Pre / Para /Clinical Disciplines

Name of the Department/Unit:

Name of the PG Student:

Departmental

activity External

4.

5.

6.7.

interdepartmental

Activities / CMEs
Thesis / Research work

Log Book Maintenance

and

P	Period of Training: FROMTO										
Sr. No.	PARTICULARS		Not Satisfactory		Satisfactory		More Than Satisfactory			Remarks	
NO.			2	3	4	5	6	7	8	9	
	Journal based / recent										
1.	advances learning										
	Patient based /Laboratory or										
2.	Skill based learning										
	Self directed learning and										
3.	teaching										

and

learning

Outreach

Publications Yes/ No

Remarks*

*REMARKS: Any significant positive or negative attributes of a postgraduate student to be mentioned. For score less than 4 in any category, remediation must be suggested. Individual feedback to postgraduate student is strongly recommended.

SIGNATURE OF ASSESSEE SIGNATURE OF CONSULTANT SIGNATURE OF HOD



Registrar
Pravara Institute of Medical Sciences
(Deemed to be University)
Loni - 413736, Tal. Rahata
Dist. Ahmednagar (M.S. India)