

# SUMANDEEP VIDYAPEETH

(Declared as Deemed to be University under Section 3 of the UGC Act 1956)

Accredited by NAAC with a CGPA of 3.61 out of four-point scale at 'A++'

Grade Category - I deemed to be university under UGC Act - 2018

At & Post Piparia, Tal. Waghodia 391760 (Gujarat) India.

Ph 02668-245262/64/66, Telefax: 02668-245126,

Website www.sumandeepvidyapeethdu.edu.in



## CURRICULUM

### Doctor of Medicine (M.D.) PEDIATRICS

Attested CTC

*Sharan* 15/2/2021

Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII. Piparia, Taluka: Waghodia.

Dist. Vadodara-391 760. (Gujarat)



*Umesh*

*Dr. K. Shah*



Pediatrics (also spelled pediatrics or pediatrics) is the branch of medicine that deals with the medical care of infants, children, and adolescents, and the age limit usually ranges from birth up to 18years.

### **Programme outcome : MD**

The purpose of MD education is to create specialists who would provide high quality health care and advance the cause of science through research & training. The goal of postgraduate medical education shall be to produce competent specialists and/or Medical teachers.

### **Programme specific outcome : MD**

**POS 1.** Scholars shall recognize the health needs of the community, and carry out professional obligations ethically and in keeping with the objectives of the national health policy.

**POS 2.** Scholars shall have acquired the basic skills in teaching of the medical and paramedical professionals.

**POS 3.** Practice the specialty concerned ethically and in step with the principles of primary health care.

**POS 4.** Demonstrate sufficient knowledge of the basic sciences relevant to the concerned specialty.

**POS 5.** Develop skills in using educational methods and techniques as applicable to the teaching of medical/nursing students, general physicians and paramedical health workers.

**COURSE OUTCOME (CO):** The objectives of MD Course in Paediatrics are to produce a competent pediatrician who:

1. 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 ethicsHas acquired the competencies pertaining to Paediatrics that are required to bepracticed in the community and at all levels of health system.
2. Has acquired skills in effectively communicating with the child, family and the community.
3. Is aware of contemporary advances and developments in medical sciences as related to child health
4. Is oriented to principles of research methodology
5. Has acquired skills in educating medical and paramedical professionals
6. Is able to recognize mental conditions and collaborate with Psychiatrists/Child Psychologists for the treatment of such patients



## 1. AIM

- 1.1 To train medical graduates as to ensure higher competence in both general and special areas of pediatrics
- 1.2 To prepare a candidate for teaching, research and clinical abilities, including prevention and after care in pediatrics.
- 1.3 To prepare the candidate to practice Evidence Based pediatrics

## 2. GENERAL OBJECTIVES OF THE COURSE

- 2.1 Training program in the Pediatrics is structured to achieve knowledge and skill in theoretical and clinical, attitude, communicative skills and ability to research with understanding of social, cultural, educational and environmental background of the society.
- 2.2 To acquire adequate knowledge and understanding of applied basic and systemic medical science, knowledge in general and particularly of pediatrics.
- 2.3 The postgraduates will be able to provide comprehensive care to pediatrics and neonatal patients with competence and working knowledge with understanding of applied medical, behavioral and clinical science that are beyond the treatment skills of the general MBBS and postgraduates of other specialties, to demonstrate evaluative and judgment skills in making appropriate decisions regarding prevention, treatment, after care and referral to deliver comprehensive care to patients.
- 2.4 Upon completion of the evidence based Pediatrics education, the trainee should be able to:
  - 2.4.1 Demonstrate significance of Evidence Based pediatric practice
  - 2.4.2 Demonstrate awareness of epidemiologically-based needs assessments through research and systematic reviews of research evidence.
  - 2.4.3 Contribute to the appraisal process.
  - 2.4.4 Understand quality assurance in the delivery of Pediatrics care.



### 3. KNOWLEDGE

- 3.1 The candidate should possess knowledge of applied basic and systemic medical sciences on human anatomy, embryology, histology, applied in general and particularly to neonate and child, Physiology & Biochemistry, Pathology and Microbiology, Virology, Health and Disease, Nutrition, Behavioral science, genetics, Immunology, Congenital defects and syndrome and Anthropology, Bioengineering, Bio-medical and Biological Principle and applications to regenerative therapy.
- 3.2 Ability to diagnose and planned treatment for patients requiring a Pediatrics therapy.
- 3.3 Ability to read and interpret a radiograph and other investigations for the purpose of diagnosis and treatment plan.
- 3.4 Ability to diagnose Pediatrics disease, provide Pediatrics therapy and supportive Pediatrics therapy.
- 3.5 Should have essential knowledge on ethics, laws and Jurisprudence in Pediatrics.
- 3.6 General health conditions and emergency as related to Pediatrics treatment.
- 3.7 Identify cases, which are outside the area of his specialty / competence and refer those appropriate specialists.
- 3.8 Diagnostic supportive and post-operative care of pediatric surgical cases.
- 3.9 Should attend continuing education programs, seminars and conferences related to Pediatrics, thus updating himself.
- 3.10 Teach and guide his/her team, colleague and other students should be able to use information technology tools and carry out research both basic clinical, with the aims of publishing his/her work and presenting his/her work at various scientific forums.
- 3.11 Should have essential knowledge of personal hygiene, infection control, prevention of cross infection and safe disposal waste, keeping in view the risks of transmission of hospital acquired and communicable diseases.
- 3.12 Should have an ability to plan to establish Pediatrics clinic/hospital teaching department and practice management.
- 3.13 Should have a sound knowledge for application of pharmacology.
- 3.14 Upon completion of Evidence based Pediatrics education the trainee should be able to describe:
  - 3.14.1 Evidence based clinical practice including cost effectiveness.
  - 3.14.2 The development and application of clinical guidelines and standards.
  - 3.14.3 The process of risk assessment as relevant to clinical practice
  - 3.14.4 Multi-disciplinary clinical care pathways and appropriate integration of pediatrics.



#### 4. SKILLS:

- 4.1 The candidate should be able to examine the patients, investigate the patient systemically, analyze the investigation results, radiology, diagnose the ailment, plan a treatment, communicate it with the patient and execute it.
- 4.2 Understand the prevalence and prevention of diseases related to Pediatrics.
- 4.3 The candidate should be able to perform procedures independently. By understanding biological, biomedical, bioengineering principles and systemic condition of the patient to provide a quality health care of the Pediatric diseases.
- 4.4 Upon completion of the subject of pediatrics, the trainee should be able to:
  - 4.4.1 Utilize appropriate communication / presentation skills
  - 4.4.2 Utilize critical appraisal skills and be able to apply to research evidence
  - 4.4.3 Produce and update patient information material.
  - 4.4.4 Construct, analyze and use patient surveys.
  - 4.4.5 Use procedures to ensure patient involvement and consultation.

#### 5. ATTITUDES:

- 5.1 Adopt ethical principles in all Pediatrics practice. Professional honesty and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or region of patient.
- 5.2 Willing to share knowledge and clinical experience with professional colleagues.
- 5.3 Willing to adopt new methods and techniques in Pediatrics from time to time based on scientific research, this is in patient's best interest.
- 5.4 Respect patient's rights and privileges including patient's right to information and right to seek second opinion.
- 5.5 Upon completion of the subject of pediatrics, the trainee should be able to recognize:
  - 5.5.1 Importance of maintaining professional standards by EBP (Evidence Based Practice).
  - 5.5.2 The need to constantly appraise and evaluate clinical practice and procedures.



## 6. COMMUNICATIVE ABILITIES:

- 6.1 Develop communication skills, in particular, to explain treatment option available in management and to make patient partner in evidence based decision making.
- 6.2 Provide leadership and get the best out of his group in a congenial working atmosphere.
- 6.3 Should be able to communicate in simple understandable language with the patient to explain the principles of pediatrics to the patient. He should be able to guide and counsel the patient with regard to various treatment modalities available.
- 6.4 Develop the ability to communicate with professional colleagues through various media like Internet, e-mail, videoconference, etc. to render the best possible treatment.

### Curriculum for post graduates

All post graduates after enrollment will be exposed to organized evidence searching skills lectures along with teaching of clinical epidemiology, biostatistics and research methodology.

All the post graduate Journal Clubs will be carried out on a prescribed Evidence Based format with emphasis on critical appraisal. A designated teacher/facilitator will assess every post graduate student for each JC presentation.

All PG seminars will have evidence embedded in the presentation and all references relating to the subject matter will be incorporated. At the end of the seminar all the references will be listed and the seminar will be assessed by the facilitator.

In the OPD/ward/PICU/NICU, every post graduate student will be exposed to at least one encounter of role modeling in which a consultant after raising a relevant query will search for its evidence and demonstrate evidence searching methodologies, its importance and utility to the student.

### 1. Goal

The Goal of M.D. (Pediatrics) Program is to provide training in Pediatrics and Neonatology

To produce competent specialists who are able to provide basic and specialty care of the

Highest order to neonates, infants, children and adolescents at the community level and at

Primary, secondary and tertiary levels of health care, and to act as future trainers, teachers,

And researchers in the field of Pediatrics and Neonatology

### 2. Course Description

MD (Pediatrics)

Duration: 3 years

Eligibility: MBBS





### 3. Intramural and Extramural Rotation

MD (Pediatrics):

- At least 4 and not more than 8 months in Neonatology.
- At least 3 and not more than 6 months in sub-specialty areas: Intensive Pediatric Care Unit (IPCU), Genetic Clinic, Thalassemia Care Centre, Emergency Pediatric Services.
- At least nil and maximum 6 months in Allied areas: Hematology, Infectious Diseases, Dermatology, Cardiology, Nephrology, Chest Medicine, Gastroenterology.

The Department of Pediatrics will decide the posting of students in Neonatology and Allied branches and Sub-specialty areas.

### 4. Syllabus

- To introduce Basic life support (BLS) and Advanced Cardiac Life Support (ACLS) training for all the First year Postgraduate Resident Doctors from academic year 2017-18.
- *To introduce New chapter / topic 'Intellectual Property Rights (IPR) for all the First year Postgraduate Resident Doctors from academic year 2020-2021 of duration of 4hrs (Board of Studies letter no.: SBKS/DEAN/742/2021, dated 05/06/2021 and Vide Notification of Board of Management Resolution Ref no.:SVDU/R/3051-1/2020-21, dated - 29" July 2021)*

#### *List of topics :*

- 1. Introduction - Concept of Intellectual Property, Historical view of Intellectual Property system in India and International Scenario, Evolution of Intellectual Property Laws in India, Legal basis of Intellectual Property Protection, Need for Protecting Intellectual Property, Theories on concept of property - Major IP Laws in India.*
- 2. Types of IPR: Patents, Copyright, Trademark Industrial Designs, Trade Secrets.*
- 3. Patents: Concept of Patent, Criteria of Patentability, Inventions NOT patentable, Process of Obtaining a Patent, Duration of Patents, Rights of Patentee, Limitation of rights, Infringement and Enforcement.*
- 4. Copyrights: Meaning of Copyright, Copyright Vs. Moral rights, Copyright eligibility, Term of Copyright, Registration of Copyright, Infringement and Remedies*
- 5. Trademark: Meaning of Trademark, Criteria for trademark, Procedure for Trademark Registration, Term of protection, Infringement and Remedies.*
- 6. Industrial Designs: Meaning of Industrial Designs, Rights in Industrial Designs: Nature, Acquisition and duration of rights.*
- 7. Trade Secrets: Meaning of Trade Secrets, Need to protect Trade secrets, Criteria of Protection, Procedure for registration, Infringement.*
- 8. Commercialization of IPR: Traditional IP and Evolving IP, Assignment, Licensing, Cross License, Patent Pool, Negotiations, Defensive Publications, Technical Disclosures, Patent Pooling, Patent Trolling, Brand Management, Brand and Pricing Strategies.*

I) Basic Sciences and Laboratory Medicine as applied to Pediatrics and Childhood Diseases.

II) Clinical Epidemiology

III) Ethics in Pediatrics and Child Care

IV) Computers in Pediatrics

V) Pediatric and Neonatal Therapeutics

- Effects of physical and physiological changes on the pharmacokinetics of commonly used medications in Pediatrics.
- Recognition of drugs that are contraindicated, and used with extreme caution in specific pediatric populations.
- Effects of maternal therapy on the fetus and the neonate.
- Secretion of drugs in the breast-milk.
- Patient education and parent education for appropriate drug dosing formulations and administration techniques.



## VI) Preventive Pediatrics

- National Health programs relevant to Pediatrics and Child Care.
- Epidemiology of common health problems and diseases.
- Vital statistics: Maternal Mortality Rate, Perinatal Mortality Rate, Neonatal Mortality Rate, Under-5 mortality Rate: Definitions, National Status, Determinants, Interventions aimed at reduction of the rates.
- National Immunization Programs and policies.
- Other vaccines not included in national immunization program

## VII) Social Pediatrics

- Child labor, Child abuse, Child neglect, Failure to thrive, Social issues relevant to Pediatrics.
- Media and children
- Children at special risk
- Adoption
- Environmental health hazards.

## VIII) Psychological Behavioral manifestations disorders

- Identification and assessment of Psychological and behavioral disorders.
- Intervention and management strategies for Psychological and behavioral disorders.

LEARNING DISABILITIES –autism, ADHD, Dyslexia.

## IX) Growth and Development

- Normal pattern and factors affecting growth and development. Recognition of normal variants of growth and development.
- Developmental assessment in infancy and childhood.
- Physiological changes during adolescence and problems facing adolescents.
- Assessment of growth.
- Deviations from normal patterns of growth and development: Recognition, Prevention, Early intervention and Management.

**Attested CTC**

Tools for assessment of growth and development at various ages including Indian adaptations.

*Sharan*  
15/2/2021

Vice-Chancellor  
Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)



## X) Nutrition

- Understanding of energy balance in humans.
- Basic biochemistry of proteins, carbohydrates and fats.
- Proximate Principles, Vitamins, Minerals and Micronutrients: Biochemistry, Physiological Functions, Daily Requirements, Manifestations and Management of deficiency and excess states.
- Normal requirement of protein, fat, carbohydrate for newborns, children, Adolescents and pregnant and lactating women.
- Nutritional values of common Indian foods.
- Breastfeeding and lactation management
- Infant feeding and weaning foods.
- Balanced diet.
- Assessment of nutritional status.
- Nutritional disorders-Etiology, Clinical features, Pathophysiology, pathogenesis and management
- Pathological features of various nutritional disorders.
- Planning of diet during illness.
- Total parental nutrition.

## XI) Fluids and Electrolytes

Pathophysiology of body fluids, fluid therapy, electrolytes, acid-base balance, parenteral and enteral fluid therapy

## XII) Emergency pediatric services

- Pediatric resuscitation
- Evaluation of critically ill child.
- Pediatric Emergencies and poisoning.
- Pediatric injuries and injury control and accidents.
- Insect, animal and snakebites.

**Attested CTC**

Planning and management of pediatric intensive care unit

- Anesthesia, perioperative care and pain management.

Principles of drug therapy.

*Charan*  
15/2/2021

**Vice-Chancellor**

**Sumandeep Vidyapeeth**

**An Institution Deemed to be University**

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)



### XIII) Genetics

- Principles and molecular basis of genetic disorders.
- Clinical features and management of genetic and chromosomal disorders.
- Prenatal diagnostic techniques and neonatal screening tests.
- Effects of teratogenic agents.
- Genetic counseling.
- Gene therapy.

### XIV) Metabolic diseases

Metabolic diseases of protein (amino acids), carbohydrates, fats, mucopolysaccharides, purines, pyrimidines, heme and others

### XV) Neonatology: The fetus and neonatal infant

- High-risk pregnancy
- Assessment of fetal growth, wellbeing and maturity.
- Fetal distress: Manifestation, identification and management
- Maternal diseases and their effects on the fetus and newborn.
- Assessment of fetal wellbeing.
- Identification and management of various fetal diseases.
- High-risk infant – identification and management.
- Delivery room emergencies, resuscitation of newborn and care of normal new born.
- Birth injuries.
- Adaptation of newborn.
- Examination of newborn and assessment of maturity.
- Etiology, Clinical features, pathophysiology, pathogenesis and management of Various diseases of newborn.
- Neonatal transport.
- Neonatal procedures.
- Developmental assessment, and early intervention programs for infants at high risk for developmental delay.
- Care of newborn in the community.

Attested CTC

Planning and organization of level I, level II, Level III Neonatal care centers.

*Sharan*  
15/2/2021

Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)



#### XVI) Infectious diseases

- Clinical features, management of viral, bacterial, fungal, spirochetal, rickettsial, parasitic, protozoal and other infections.
- Prevention and management of nosocomial infections.
- Infection control and preventive measures.
- Immunization against infectious diseases.
- Fever
- Laboratory techniques for diagnosis of infectious diseases.
- Infections in immunocompromised host.
- Clinical syndromes caused by various infectious agents.

#### XVII) Immunological system and its disorders

- Components of immune system and their functions.
- Disorders of immune system – Etiology, Clinical features, pathophysiology, pathogenesis and management.
- Pharmacotherapy.
- Transplantation medicine.
- Allergic diseases – etiology, Clinical features, patho-physiology, pathogenesis and management.
- Relevant diagnostic and therapeutic modalities in various immunological and allergic disorders.

#### XVIII) Rheumatic diseases and connective tissue disorder of childhood.

Etiology, pathogenesis, manifestation, laboratory diagnosis and management of

Attested CTC

Rheumatic diseases in childhood and adolescents

*Sharan*  
15/2/2021

Vice-Chancellor  
Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)



### XIX) Respiratory system

- Development of respiratory system, congenital anomalies.
- Physiology of respiration and mechanics of ventilation.
- Etiology, Clinical features, pathophysiology, pathogenesis and management of various respiratory diseases.
- Pathological features of various respiratory diseases.
- Relevant diagnostic and therapeutic modalities in respiratory diseases in children.
- Pharmacotherapy of respiratory diseases.

### XX) Cardiovascular system

- Embryology of heart and vascular system.
- Adaptations of cardiovascular system at and after birth.
- Etiology, pathophysiology, pathogenesis, Clinical features and management of congenital and acquired heart and vascular diseases and rheumatic heart disease.
- Rheumatic fever – Epidemiology, Clinical features, pathophysiology, pathogenesis, prevention and management.
- Relevant diagnostic and therapeutic modalities in heart diseases in children.
- Congestive cardiac failure – Etiology, pathophysiology, pathogenesis, Clinical features and management.
- Pharmacotherapy of cardiovascular diseases.

### XXI) Gastrointestinal tract

- Development of gastrointestinal tract, hepatobiliary system and their abnormalities.
- Physiology of digestion.
- Etiology, pathophysiology, pathogenesis, Clinical features and management of various gastrointestinal and hepatobiliary and other abdominal diseases.
- Pathological features of gastrointestinal, hepatobiliary and pancreatic disorders.
- Surgical emergencies in gastrointestinal tract diseases.

Attested CTC

*Sharan*  
15/2/2021

Vice-Chancellor  
Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodra-391 760. (Gujarat)



## XXII) Hematology and Neoplastic diseases

- Physiology of erythropoiesis, leukopoiesis and physiology of hemostasis.
- Etiology, pathophysiology, pathogenesis, Clinical features and management of hematological and oncological diseases.
- Laboratory diagnosis and other relevant diagnostic and therapeutic modalities in Hematological and oncological disorders.
- Pharmacotherapy of Hematological and Oncological Diseases.
- Component therapy in Pediatric Practice.

## XXII) Nephrology and genitourinary tract

- Development and developmental anomalies of the kidneys and the genitourinary tract.
- Physiology of urine formation and metabolic functions of the kidney.
- Etiology, Pathophysiology, pathogenesis, Clinical features and management of various disorders of the kidney and the genitourinary tract.
- Pathological features of diseases of the kidney and genitourinary tract.
- Relevant diagnostic and therapeutic modalities for diseases of the kidney and the Genitourinary tract.
- Pharmacotherapy of renal and genitourinary disorders.
- Management of end stage renal disease.

## XXIV) Central and peripheral Nervous System

- Development of the brain, spinal cord and peripheral nervous system and their Anomalies.
- Neurological evaluation of newborns, infants and children.
- Etiology, Pathophysiology, pathogenesis, Clinical features and management of Various diseases affecting central nervous system and peripheral nervous system.
- Seizures in childhood.
- Neuromuscular diseases – etiology, Clinical features, Pathophysiology and

Management

Attested CTC

*Sharan*

15/2/2021

Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)





XXV) Endocrine system

- Synthesis, physiological functions and pharmacological actions of various Hormones.
- Disorders of the endocrine glands.
- Pubertal development and its disorders.

XXVI) Congenital and acquired disorders of eye, ear, nose, throat, bones and joints.

XXVII) Miscellaneous diseases

- Unclassified diseases including SIDS, Sarcoidosis, Progeria, histiocytosis, chronic Fatigue syndrome.
- Metabolic bone diseases.
- Genetic skeletal dysplasias.

XXVII) Development of diagnostic approach for and interpretation of symptomatology and Clinical signs in infants, children and adolescents.

XXVIII) Basics of Research Methodologies, Ethical aspects of Clinical Research Medical and Perinatal Audit and Health Economics.

**POST GRADUATE TEACHING PROGRAM IN THE DEPARTMENT OF PEDIATRICS**

1. The clinical program of postgraduate students involves five hours of teaching per week.
2. Case presentations on Wednesday and Thursday from 3 pm to 4.30 pm.
3. Weekly PG Common Clinical Meet on Friday from 3 pm to 4 pm.
4. On Tuesday from 3 pm to 4 pm there should be minimum 2 seminars per month and 1 journal clubs per month and one Tuesday is utilized for synopsis discussion, dissertation discussion, Perinatal meeting, guest lectures and CPC discussion.
5. Every student is encouraged for 2 paper/ poster presentation in specialty conference. Simultaneously it is mandatory for every student (at least one) to either publish or submit article for publication in peer reviewed indexed journal.

Attested CFO

*Sharan*  
15/2/2021

Vice-Chancellor  
Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia.

Dist. Vadodara-391 760. (Gujarat)





### Internal assessment of post graduate students

Internal assessment of post graduate students is carried out regularly as below-

**Quarterly assessment** is done on the basis of following points and every student's performance is graded as satisfactory or non-satisfactory on pre-structured format (annex. Attached).

- a) Discipline and bearing
- b) Conduct with colleagues, patients and relatives
- c) Progress on synopsis/ dissertations
- d) Patient examination procedures
- e) Seminars,
- f) Journal club ,
- g) Case presentation

**Periodic assessment** is done by 6 monthly one theory and one practical examinations and its format is similar to university examinations. It is taken for second year and third year residents.

**Preliminary examination** is done theory and practical examinations and its format is similar to university examinations.

**Attested CTC**

*Sharan*  
15/2/2021

Vice-Chancellor  
Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)



## REFERENCE BOOKS

1	MCQS IN PEDIATRICS
2	RECENT ADVANCES IN PEDIATRICS 10
3	PEDIATRIC HEMATOLOGY/ ONCOLOGY SECRETS
4	PEDIATRIC ANESTHESIA HANDBOOK
5	PEDIATRIC UROLOGY
6	CARE OF THE NEW BORN
7	FORFAR & ARNEIL"S TEXTBOOK OF PEDIATRICS
8	CLINICAL PEDIATRICS FOR GENERAL PRACTITIONERS
9	PAEDIATRIC NEUROLOGY
10	DISEASES OF THE SMALL INTESTINE IN CHILDHOOD
11	PEDIATRIC NUTRITION
12	GENETIC AND METABOLIC DISEASE IN PEDIATRICS
13	PEDIATRICS 2: PERINATAL MEDICINE
14	FETAL PHYSIOLOGICAL MEASUREMENT
15	INFANT PREVIEWING
16	MANUAL OF NEONATAL CARE
17	RESUSCITATION OF THE NEWBORN
18	IMMUNIZATION FOR CHILDREN
19	PRACTICAL PAEDIATRIC NEUROLOGY
20	ADULT AND PEDIATRIC UROLOGY
21	EXAMINATION PAEDIATRICS
22	DRUG DOSAGES IN CHILDREN
23	ESSENTIALS OF PEDIATRIC EMERGENCIES AND CRITICAL CARE
24	PRACTICAL PAEDIATRIC NUTRITION
25	PEDIATRIC CLINICAL EXAMINATION
26	MEDICAL EMERGENCIES IN CHILDREN
27	FUTURE DIRECTIONS IN INFANT DEVELOPMENT RESEARCH
28	ACUTE MYELOGENOUS LEUKEMIA IN CHILDHOOD
29	HORMONE TOXICITY IN THE NEWBORN
30	EPILEPSIES OF CHILDHOOD
31	SEIZURE DISORDERS IN CHILDREN
32	PEDIATRICS IN REVIEW
33	CURRENT ISSUES IN PEDIATRICS
34	NUTRITION AND CHILD DEVELOPMENT
35	NEONATOLOGY
36	PRINCIPLES AND PRACTICE OF PEDIATRICS
37	CONDENSED PAEDIATRICS COMPANION
38	PAEDIATRIC GASTROENTEROLOGY AND HEPATOLOGY
39	THE PEDIATRIC SPINE I: DEVELOPMENT AND THE DYSRAPHIC STATE
40	TEXTBOOK OF CHILD NEUROLOGY

Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)



41	TOPICS IN PEDIATRICS
42	PEDIATRIC CARDIOLOGY
43	CLINICAL PERSPECTIVES IN THE MANAGEMENT OF DOWN'S SYNDROME
44	INFANTS IN CRISIS: HOW PARENTS COPE WITH NEWBORN INTENSIVE CARE AND ITS AFTERMATH
45	DISEASES OF KIDNEY IN CHILDREN
46	CLINICAL PEDIATRIC NEUROLOGY
47	A COLOR ATLAS OF MUSCLE DISORDERS IN CHILDHOOD
48	CURRENT PERINATOLOGY
49	ATTENTION DEFICIT DISORDERS AND HYPERACTIVITY IN CHILDREN
50	OPERATIVE TECHNIQUE IN NEONATES AND INFANTS
51	SURGERY FOR ENDOCRINOLOGICAL DISEASES AND MALFORMATIONS IN CHILDHOOD
52	PEDIATRIC APPLICATIONS OF TRANSCRANIAL DOPPLER SONOGRAPHY
53	THE 5-MINUTE PEDIATRIC PATIENT ADVISOR
54	THE PRACTICE OF MEDICINE IN ADOLESCENCE
55	A DICTIONARY OF CONGENITAL MALFORMATIONS AND DISORDERS
56	PERINATAL PATIENT EDUCATION
57	PRENATAL DIAGNOSIS AND THERAPY
58	MANAGEMENT OF THE CHILD WITH A SERIOUS INFECTION OR SEVERE MALNUTRITION
59	SURVEY OF CLINICAL PEDIATRICS
60	MOSBY'S COLOR ATLAS AND TEXT OF PEDIATRICS & CHILD HEALTH
61	PEDIATRIC PSYCHOPHARMACOLOGY
62	FUNDAMENTALS OF PEDIATRIC ORTHOPEDICS
63	RAPID ACCESS PEDIATRICS
64	A HANDBOOK OF PEDIATRICS
65	PAEDIATRICS
66	A HANDBOOK OF PAEDIATRIC ANAESTHESIA
67	CEREBROVASCULAR DISEASES IN CHILDREN
68	NEONATAL NEUROLOGY
69	RATIONAL ANTIMICROBIAL PRATICE IN PEDIATRICS
70	THE SHORT TEXTBOOK OF PEDIATRICS
71	PEDIATRIC CARDIOLOGY FOR PRACTITIONERS
72	MANUAL OF NEWBORN CRITICAL CARE MEDICINE
73	PEDIATRIC COMPANION
74	MANAGEMENT OF HIGH-RISK PREGNANCY A PRACTICAL APPROACH
75	GHAJ ESSENTIAL PEDIATRICS
76	ESSENTIAL PEDIATRIC NURSING
77	CLINICAL METHODS IN PEDIATRICS
78	AN APPROACH TO PEDIATRIC PROBLEMS
79	PAEDIATRIC CLINICAL METHODS

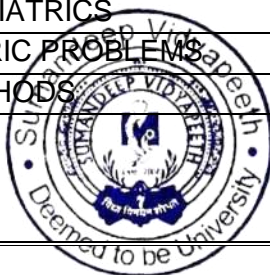
Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)



80	THE NORMAL CHILD
81	AICARDI'S EPILEPSY IN CHILDREN
82	MANUAL OF NEONATAL SURGICAL INTENSIVE CARE
83	CARE OF THE NEW BORN BY TEN TEACHERS
84	LESSONS FROM THE GRAND ROUNDS A PEDIATRIC APPROACH
85	THE SCIENCE OF INFANT FEEDING
86	PRINCIPLES OF PEDIATRIC & NEONATAL EMERGENCIES
87	NADAS' PEDIATRIC CARDIOLOGY
88	STEP BY STEP PEDIATRIC ECHOCARDIOGRAPHY
89	PRACTICAL NEW BORN CRITICAL CARE NURSING
90	ATLAS OF PEDIATRIC RADIOLOGY
91	IAP SPECIALITY SERIES ON PEDIATRIC CARDIOLOGY
92	MANAGEMENT OF EMERGENCY PEDIATRICS MADE EASY
93	TEXT BOOK OF NEONATAL HEMATOLOGY-ONCOLOGY
94	PEDIATRIC CLINICAL DIAGNOSIS
95	SHORT ATLAS IN PEDIATRICS
96	TEXBOOK OF PRACTICAL PEDIATRIC PULMONOLOGY
97	CHALLENGES IN NEONATOLOGY
98	HOW TO READ PEDIATRIC ECGS
99	ESSENTIALS OF TUBERCULOSIS IN CHILDREN
100	IAP GUIDE BOOK ON IMMUNIZATION
101	RECENT ADVANCES IN PEDIATRICS-18 HOT TOPICS
102	PEDIATRIC INTENSIVE CARE
103	RED BOOK
104	LANGE CURRENT PROCEDURES PEDIATRICS
105	LANGE CURRENT DIAGNOSIS & TREATMENT
106	LANGE CURRENT ESSENTIALS PEDIATRICS
107	PRETEST PEDIATRICS
108	NELSON TEXTBOOK OF PEDIATRICS 18 <sup>TH</sup> EDITION ( VOLUME 1 & 2)
109	IAP COLOR ATLAS OF PEDIATRICS
110	NELSON TEXTBOOK OF PEDIATRICS 19 <sup>TH</sup> EDITION
111	IAP BOOK OF IMMUNIZATION 2010 - 2011
112	RUDOLPH'S PEDIATRICS
113	PEDIATRIC DIAGNOSTIC IMAGING - CAFFEY'S
114	AVERY'S DISEASES OF THE NEWBORN
115	ROGERS' TEXTBOOK OF PEDIATRIC INTENSIVE CARE
116	MANUAL OF NEONATAL CARE
117	CARE OF THE NEW BORN - MEHARBAN SINGH
118	CLINICAL PEDIATRICS
119	SEIZURES AND EPILEPSY IN CHILDREN A PRACTICAL GUIDE
120	LIVER DISEASES IN CHILDREN
121	PEDIATRICS LECTURE NOTES

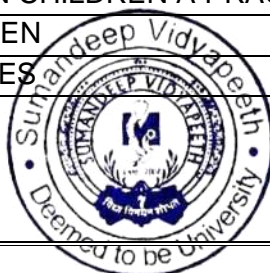
Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)



123	IAP TEXTBOOK OF PEDIATRICS
124	TEXT BOOK OF PEDIATRICS (FORFAR & ARNEIL)
125	COLOR ATLAS AND SYNOPSIS OF PEDIATRIC DERMATOLOGY
126	PRICIPLES OF PEDIATRIC AND NEONATAL EMERGENCIES
127	PEDIATRIC DECISION MAKING STRATEGIES
128	ACHAR'S TEXTBOOK OF PEDIATRICS
129	PRACTICAL STRATEGIES IN PEDIATRIC DIAGNOSIS AND THERAPY
130	THE DEVELOPMENT OF THE INFANT AND YOUNG CHILD
131	AIDS TO CLINICAL EXAMINATION
132	NEUROLOGICAL EXAMINATION MADE EASY
133	FUNDAMENTALS OF PEDIATRICS
134	BICKERSTAFF'S NUEROLOGICAL EXAMINATION IN CLINICAL PRACTICE
135	PEDIATRIC ENDOCRINE DISORDER
136	IMMUNIZATION IN PRACTICE
137	NEONATAL PROPERTIES IN DEVELOPING COUNTRIES
138	MANUAL OF NEONATAL CARE
139	BREAST FEEDING IN PRACTICE
140	PEDIATRIC NEONATAL EMMERGENCIES
141	PRACTICAL PERINATAL CARE
142	BREASTFEEDING AND COMPLEMENTRY FEEDING
143	INFECTIONS IN CHILDREN
144	FAST FACTS IN PEDIATRICS
145	PEDIATRIC INFECTIOUS DISEASES
146	NUTRINIONAL AND CHILD DEVELOPMENT
147	PEDIATRIC INFECTIOUS DISEASES
148	CURRENT ISSUES IN PEDIATRICS
149	MANAGEMENT OF ACUTE AND CHRONIC DIARRHEA IN CHILDREN
150	RUDOLPH'S PEDIATRICS
151	PATHOLOGIC BASIS OF DISEASES
152	PRICILPLES AND PRACTICE OF PEDIATRIC ONCOLOGY
153	PRICILPLES AND PRACTICE OF PEDIATRIC ONCOLOGY
154	PRICILPLES AND PRACTICE OF PEDIATRIC ONCOLOGY
155	CHILD NEUROLOGY
156	COLOR TEXTBOOK OF PEDIATRIC DERMATOLOGY
157	TEXTBOOK OF MEDICAL PHYSIOLOGY
158	PRACTICAL GUILDLINE ON FLUID THERAPY
159	CHILD AND ADOLESCENSE PSYCHIATRY
160	PEDIATRIC CARDIOLOGY FOR PREACTIONERS
161	ESSENTIAL OF TB IN CHILDREN
162	RECENT ADVANCES IN PEDIATRICS
163	PRACTICAL PEDIATRIC PROBLEM
164	PEDIATRIC NEPHROLOGY

Approved by

Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodara-391 760. (Gujarat)



165	BLOOD DISEASES OF INFANCY AND CHILDHOOD
166	CLINICAL PEDIATRIC NEUROLOGY
167	EPILEPSY IN CHILDREN
168	IAP TEXTBOOK OF PEDIATRICS
169	NEONATAL PROPERTIES IN DEVELOPING COUNTRIES
170	RECENT ADVANCES IN PEDIATRICS
171	RECENT ADVANCES IN PEDIATRICS
172	REMINGTON - INFECTIOUS DISEASES OF THE FETUS AND NEWBORN INFANTS
173	ESSENTIALS OF PEDIATRICS
174	ACUTE PEDIATRIC PAIN MANAGEMENT
175	PEDIATRIC SURGERY
176	RECENT ADVANCES IN PEDIATRICS
177	RECENT ADVANCES IN PEDIATRICS
178	NUTRITIVE VALUES OF INDIAN FOOD
179	HANDBOOK OF PEDIATRIC DRUG THERAPY AND IMMUNIZATION
180	PRACTICAL ASPECTS OF PEDIATRICS
181	MANAGEMENT OF PRIMARY HEALTH CARE
182	GUIDELINES FOR TREATMENT OF MALARIA
183	HUMAN EMBRYOLOGY

**Attested CTC**

*Sharan* 15/2/2021

**Vice-Chancellor**

**Sumandeep Vidyapeeth**

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia,

Dist. Vadodra-391 760. (Gujarat)





## SCHEME OF EXAMINATION

Degree: **M.D.** (Paediatrics)

University: Sumandeep Vidyapeeth, Piparia

Dissertation: Pediatrics and Neonatology topic will be assigned for dissertation work. After getting approval from the institutional ethical committee, the student is expected to complete and submit it to the University for Assessment Purpose SIX months before the expected date of University Examination.

Theory Examination: (400 Marks)

Paper number	Topics	Marks	Time
I	Pediatrics I Basic Sciences as applied to Pediatrics	100	3 Hours
II	Pediatrics II Neonatology and community pediatrics	100	3 Hours
III	Pediatrics III General Pediatrics including advances in pediatrics [Nutrition, Growth and Development, Immunization, Infectious disease Genetics, Immunology, Rheumatology, Psychiatry and Behavioral Sciences, Skin, Eye, ENT Adolescent Health care Accidents and Poisoning]	100	3 Hours
IV	Pediatrics IV General Pediatrics including advances in pediatrics [Neurology and disabilities, Nephrology, Hematology-oncology, Endocrinology, Gastroenterology and Hepatology, Respiratory and Cardiovascular disorders]	100	3 Hours

Note: The distribution of topics in each paper is arbitrary. There may be overlapping of relevant topics in question papers

Each Paper shall have 5 Questions; all compulsory; no options.

Question-1: Long Question (1)	20 marks
Question-2: Long Question (1)	20 marks
Question-3: Long Question (1)	20 marks
Question-4: Short Notes— (2)	20 marks
Question-5: Short notes —(4)	20 marks

Practical Examination: (450 Marks + 150 marks for viva voce)= 600 marks

Duration: Minimum 2 days

Exercise number	Description	Marks	Time	Assessment
1	long case (1)	200	75 min	All Four examiners
2	Short case (2 – one compulsory newborn)	125 125	15 minutes for each case	Case- I- Pair-I Case-II pair II
3	Viva voce Including Table viva	75 75	15 minutes each	Pair-I Pair-II

Passing standards: Theory and Practical 50 % each separately

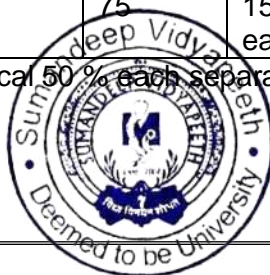
Vice-Chancellor

Sumandeep Vidyapeeth

An Institution Deemed to be University

VIII, Piparia, Taluka: Waghodia.

Dist. Vadodra-391 760. (Gujarat)





**Scheme of Examination: (Diploma in Paediatrics Course)**  
**Degree: Diploma in Paediatrics (D.C.H)**

University: **SumandeepVidyapeeth, Piparia**

Project: Pediatric and Neonatology based Topic will be assigned for Project work. After obtaining approval from Institutional Ethical Committee, the student is expected to complete the project and submit report to the University along with the examination form.

Theory Examination: (300 Marks)

Paper number	Topics	Marks	Time
I	General Paediatrics	100	3 Hours
II	Nutrition, Growth And Development, Psychiatric order.	100	3 Hours
III	Neonatology and community paediatrics	100	3 Hours

Note: The distribution of topics in each paper is arbitrary. There may be overlapping of relevant topics in question papers

Each Paper shall have 5 Questions; all compulsory; no options.

Question-1: Long Question (1)	20 marks
Question-2: Long Question (1)	20 marks
Question-3: Long Question (1)	20 marks
Question-4: Short Notes—(4)	20 marks
Question-5: Short notes —(4)	20 marks

Practical Examination: (300 Marks + 100 marks Viva voce) = 400 marks  
Duration: Minimum 1 day

Exercise number	Description	Marks	Time	Assessment
1	Long case	150	1 hour	All four examiners
2	Short case (2- out of which one will be neonate)	75 75	15 minutes each	Pair- I Pair-II
3	Viva-voce	50 50	10 minutes each	Pair-I Pair-II

Passing standards: Theory and Practical 50 % each separately

*Implementation of Revised Competency Based Post Graduate Training Programme for MD in pediatrics as per the guidelines prepared by the National Medical Commission through Subject Expert Groups{ Date of Bos 21.07.2022 Ref :SBKSMIRC/Dean/Outward No.1301/2021-22, Date of Academic council :29.07.2022 Ref :SVDU/NOTFN/O370/2021-22 dated 30.07.2022}*