

PEDIATRICS (CODE: PE)

PO'S FOR OUR UNIVERSITIES

PO1. CLINICIAN : PROVIDES PREVENTIVE, PROMOTIVE, CURATIVE, PALLIATIVE AND HOLISTIC CARE WITH COMPASSION.

PO2. LEADER AND MEMBER OF THE HEALTH CARE TEAM AND SYSTEM : ACT AS LEADER AND MEMBER OF THE HEALTH CARE TEAM AND SYSTEM WITH CAPABILITIES TO COLLECT, ANALYZE AND SYNTHESIZE HEALTH DATA.

PO3.COMMUNICATOR : COMMUNICATES EFFECTIVELY WITH PATIENTS, FAMILIES, COLLEAGUES AND COMMUNITY.

PO4. LIFELONG LEARNER : RECOGNIZES THE NEED AND HAS THE ABILITY TO ENGAGE IN LIFE-LONG LEARNING TO UPDATE KNOWLEDGE AND PROFESSIONAL SKILLS.

PO5. PROFESSIONAL: ILLUSTRATE PROFESSIONAL SKILLS BY BEING ETHICAL, RESPONSIVE AND ACCOUNTABLE TO PATIENTS, COMMUNITY, AND PROFESSION.

PO6. CRITICAL THINKER : DEVELOP PROBLEM SOLVING SKILLS IN PROFESSIONAL PRACTISE

PO7. RESEARCHER : GENERATES AND INTERPRETS EVIDENCE

RATE ACCORDING TO DEFINITION ON A SCALE OF 0 TO 3 WHERE

0 - NO CORRELATION

1 -SLIGHT (LOW) CORRELATION

2 -MODERATE (MEDIUM) CORRELATION

3 -SUBSTANTIAL (HIGH) CORRELATION

Number	COMPETENCY The student should be able to	PO1	PO2	PO3	PO4	PO5	PO6	PO7	
PEDIATRICS									
Topic: Normal Growth and Development		Number of competencies : (07)				Number of procedures that require certification: (02)			
PE1.1	Define the terminologies Growth and development and discuss the factors affecting normal growth and development	3	1	3	2	02	1	2	
PE1.2	Discuss and describe the patterns of growth in infants, children and adolescents	3	1	1	2	2	1	2	
PE1.3	Discuss and describe the methods of assessment of growth including use of WHO and Indian national standards. Enumerate the parameters used for assessment of physical growth in infants, children and adolescents	3	1	0	1	1	1	3	
PE1.4	Perform Anthropometric measurements, document in growth charts and interpret	3	0	3	1	2	1	1	
PE1.5	Define development and discuss the normal developmental milestones with respect to motor, behaviour, social, adaptive and language	3	0	2	1	2	2	2	
PE1.6	Discuss the methods of assessment of development	3	1	2	1	1	2	2	
PE1.7	Perform Developmental assessment and interpret	3	3	1	0	2	3	3	
Topic: Common problems related to Growth									
PE2.1	Discuss the etio-pathogenesis, clinical features and management of a child who fails to thrive	3	2	3	2	3	3	3	
PE2.2	Assessment of a child with failing to thrive including eliciting an appropriate history and examination	3	3	3	1	1	2	3	

Number	COMPETENCY The student should be able to								
PE2.3	Counselling a parent with failing to thrive child	2	2	3	1	2	1	1	
PE2.4	Discuss the etio-pathogenesis, clinical features and management of a child with short stature	3	2	2	1	0	2	3	
PE2.5	Assessment of a child with short stature: Elicit history, perform examination, document and present	3	2	3	0	0	0	1	
PE2.6	Enumerate the referral criteria for growth related problems	3	3	3	2	2	3	2	
Topic: Common problems related to Development -1 (Developmental delay , Cerebral palsy) Numberofcompetencies:(08) Number of procedures that require certification :(NIL)									
PE3.1	Define, enumerate and discuss the causes of developmental delay and disability including intellectual disability in children	3	3	1	2	1	2	2	
PE3.2	Discuss the approach to a child with developmental delay	3	1	1	1	1	3	1	
PE3.3	Assessment of a child with developmental delay - Elicit document and present history	3	2	2	1	0	0	3	
PE3.4	Counsel a parent of a child with developmental delay	3	0	3	1	0	2	0	
PE3.5	Discuss the role of the child developmental unit in management of developmental delay	3	3	3	2	2	2	2	
PE3.6	Discuss the referral criteria for children with developmental delay	3	3	3	2	2	3	2	
PE3.7	Visit a Child Developmental Unit and observe its functioning	2	3	1	2	2	2	1	
PE3.8	Discuss the etio-pathogenesis, clinical presentation and multi-disciplinary approach in the management of Cerebral palsy	3	2	3	3	2	3	2	

Number	COMPETENCY The student should be able to								
Topic: Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD) Number ofcompetencies:(06)									
Number of procedures that require certification:(NIL)									
PE4.1	Discuss the causes and approach to a child with scholastic backwardness	3	3	3	2	1	2	3	
PE4.2	Discuss the etiology, clinical features, diagnosis and management of a child with Learning Disabilities	3	3	3	2	2	2	3	
PE4.3	Discuss the etiology, clinical features, diagnosis and management of a child with Attention Deficit Hyperactivity Disorder (ADHD)	3	2	3	2	2	2	3	
PE4.4	Discuss the etiology, clinical features, diagnosis and management of a child with Autism	3	2	3	2	2	2	3	
PE4.5	Discuss the role of Child Guidance clinic in children with Developmental problems	3	1	3	1	1	2	1	
PE4.6	Visit to the Child Guidance Clinic	3	3	3	0	2	0	1	
PE5.1	Describe the clinical features, diagnosis and management of thumb sucking	3	0	3	0	2	0	2	
PE5.2	Describe the clinical features, diagnosis and management of Feeding problems	3	2	3	0	1	3	2	
PE5.3	Describe the clinical features, diagnosis and management of nail biting	3	0	3	0	2	2	2	
PE5.4	Describe the clinical features, diagnosis and management of Breath Holding spells	3	1	3	0	2	2	1	

Number	COMPETENCY The student should be able to								Horizontal Integration
PE5.5	Describe the clinical features, diagnosis and management of temper tantrums	3	1	3	0	2	2	1	
PE5.6	Describe the clinical features, diagnosis and management of Pica	3	2	2	1	2	2	1	
PE5.7	Describe the clinical features, diagnosis and management of Fussy infant	3	0	3	0	2	3	1	
PE5.8	Discuss the etiology, clinical features and management of Enuresis	3	0	3	1	1	2	2	
PE5.9	Discuss the etiology, clinical features and management of Encopresis	3	0	3	1	1	2	1	
PE5.10	Discuss the role of child guidance clinic in children with behavioural problems and the referral criteria	3	2	3	1	2	3	1	
PE5.11	Visit to Child Guidance Clinic and observe functioning	3	1	1	0	2	0	0	
Topic: Adolescent Health & common problems related to Adolescent Health									
Number of competencies:(13)				Number of procedures that require certification:(NIL)					
PE6.1	Define Adolescence and stages of adolescence	3	1	1	0	2	2	0	
PE6.2	Describe the physical, physiological and psychological changes during adolescence (Puberty)	3	2	3	2	1	0	3	
PE6.3	Discuss the general health problems during adolescence	3	3	3	1	2	2	1	
PE6.4	Describe adolescent sexuality and common problems related to it	3	3	3	1	2	2	2	
PE6.5	Explain the Adolescent Nutrition and common nutritional problems	3	3	3	1	1	1	2	

Number	COMPETENCY The student should be able to								
PE6.6	Discuss the common Adolescent eating disorders (Anorexia Nervosa, Bulimia)	3	3	3	0	2	1	2	
PE6.7	Describe the common mental health problems during adolescence	3	3	3	0	1	2	2	
PE6.8	Respecting patient privacy and maintaining confidentiality while dealing with adolescence	3	1	3	0	3	0	0	
PE6.9	Perform routine Adolescent Health check up including eliciting history, performing examination including SMR (Sexual Maturity Rating), growth assessments (using Growth charts) and systemic exam including thyroid and Breast exam and the HEADSS screening	3	2	3	2	3	2	0	
PE6.10	Discuss the objectives and functions of AFHS (Adolescent Friendly Health Services) and the referral criteria	3	3	3	0	3	2	0	
PE6.11	Visit to the Adolescent Clinic	3	3	3	0	2	0	0	
PE6.12	Enumerate the importance of obesity and other NCD in adolescents	3	0	3	0	1	0	0	
PE6.13	Enumerate the prevalence and the importance of recognition of sexual drug abuse in adolescents and children	3	0	2	1	2	2	2	
Topic: To promote and support optimal Breast feedingforInfants Number ofcompetencies:(11) Numberofprocedureshatrequirecertification: (01)									
PE7.1	Awareness on the cultural beliefs and practices of breast feeding	3	3	3	0	2	0	2	
PE7.2	Explain the physiology of lactation	3	3	2	0	2	0	0	

Number	COMPETENCY The student should be able to								
PE7.3	Describe the composition and types of breast milk and discuss the differences between cow's milk and Human milk	3	3	3	0	2	0	0	
PE7.4	Discuss the advantages of breast milk	3	3	3	0	2	0	0	
PE7.5	Observe the correct technique of breast feeding and distinguish right from wrong techniques	3	1	1	0	1	1	1	
PE7.6	Enumerate the baby friendly hospital initiatives	3	2	1	0	0	0	0	
PE7.7	Perform breast examination and identify common problems during lactation such as retracted nipples, cracked nipples, breast engorgement, breast abscess	3	0	2	0	2	2	0	
PE7.8	Educate mothers on ante natal breast care and prepare mothers for lactation	3	2	3	0	2	0	0	
PE7.9	Educate and counsel mothers for best practices in Breast feeding	3	3	3	1	1	0	1	
PE7.10	Respects patient privacy	3	1	1	1	2	0	0	
PE7.11	Participate in Breast Feeding Week Celebration	3	3	3	0	2	0	0	
Topic:ComplementaryFeeding		Number of competencies:(05)			Number of procedures that require certification:(NIL)				
PE8.1	Define the term Complementary Feeding								

Number	COMPETENCY The student should be able to								Horizontal Integ ratio n
PE8.2	Discuss the principles, the initiation, attributes, frequency, techniques and hygiene related to Complementary Feeding including IYCF	3	3	3	0	1	0	1	
PE8.3	Enumerate the common complimentary foods	3	2	3	0	0	0	1	
PE8.4	Elicit history on the Complementary Feeding habits	3	1	3	0	1	0	0	
PE8.5	Counsel and educate mothers on the best practices in Complimentary Feeding	3	3	3	0	2	0	1	
PE9.1	Describe the age related nutritional needs of infants, children and adolescents including micronutrients and vitamins	3	2	3	2	0	0	2	
PE9.2	Describe the tools and methods for assessment and classification of nutritional status of infants, children and adolescents	3	2	0	0	0	1	2	
PE9.3	Explains the Calorific value of common Indian foods	3	1	2	0	0	0	0	
PE9.4	Elicit document and present an appropriate nutritional history and perform a dietary recall	3	2	2	0	1	0	0	
PE9.5	Calculate the age related calorie requirement in Health and Disease and identify gap	3	2	0	1	1	2	1	
PE9.6	Assess and classify the nutrition status of infants, children and adolescents and recognize deviations	3	1	1	0	2	2	1	

Number	COMPETENCY The student should be able to								
PE9.7	Plan an appropriate diet in health and disease	3	2	3	0	2	2	2	
Topic: Provide nutritional support , assessment and monitoring for common nutritional problems Number ofcompetencies:(06) Number of procedures that require certification:(NIL)									
PE10.1	Define and describe the etio-pathogenesis, classify including WHO classification, clinical features, complication and management of Severe Acute Malnourishment (SAM) and Moderate Acute Malnutrition (MAM)	3	2	2	1	2	1	2	
PE10.2	Outline the clinical approach to a child with SAM and MAM	3	1	1	0	1	3	2	
PE10.3	Assessment of a patient with SAM and MAM, diagnosis, classification and planning management including hospital and community based intervention, rehabilitation and prevention	3	3	3	0	3	3	2	
PE10.4	Identify children with under nutrition as per IMNCI criteria and plan referral	3	3	3	0	2	1	0	
PE10.5	Counsel parents of children with SAM and MAM	3	2	3	0	1	0	1	
PE10.6	Enumerate the role of locally prepared therapeutic diets and ready to use therapeutic diets	3	3	3	0	0	0	0	
Topic: Obesityinchildren Number ofcompetencies:(06) Number of procedures that require certification:(01)									
PE11.1	Describe the common etiology, clinical features and management of obesity in children	3	2	2	0	1	2	2	

Number	COMPETENCY The student should be able to								
PE11.2	Discuss the risk approach for obesity and discuss the prevention strategies	3	2	2	0	2	3	2	
PE11.3	Assessment of a child with obesity with regard to eliciting history including physical activity, charting and dietary recall	3	2	3	0	2	1	2	
PE11.4	Examination including calculation of BMI, measurement of waist hip ratio, identifying external markers like acanthosis, striae, pseudogynaecomastiaetc	3	2	2	0	2	1	1	
PE11.5	Calculate BMI, document in BMI chart and interpret	3	1	1	0	2	0	0	
PE11.6	Discuss criteria for referral	3	2	3	0	2	2	0	
Topic: Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C) Number ofcompetencies:(21) Number of procedures that require certification:(NIL)									
PE12.1	Discuss the RDA, dietary sources of Vitamin A and their role in Health and disease	3	2	2	0	1	0	1	
PE12.2	Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin A	3	3	2	0	2	1	2	
PE12.3	Identify the clinical features of dietary deficiency / excess of Vitamin A	3	2	0	0	1	1	0	
PE12.4	Diagnose patients with Vitamin A deficiency, classify and plan management	3	2	2	0	1	2	1	
PE12.5	Discuss the Vitamin A prophylaxis program and their recommendations	3	3	2	0	2	1	1	

Number	COMPETENCY The student should be able to								
PE12.6	Discuss the RDA, dietary sources of Vitamin D and their role in health and disease	3	3	3	0	1	1	2	
PE12.7	Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin D (Rickets and Hypervitaminosis D)	3	2	2	0	1	1	1	
PE12.8	Identify the clinical features of dietary deficiency of Vitamin D	3	3	3	0	2	0	0	
PE12.9	Assess patients with Vitamin D deficiency, diagnose, classify and plan management	3	2	2	1	2	2	1	
PE12.10	Discuss the role of screening for Vitamin D deficiency	3	2	2	0	2	2	2	
PE12.11	Discuss the RDA, dietary sources of Vitamin E and their role in health and disease	3	2	1	0	1	0	1	
PE12.12	Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin E	3	0	1	1	2	1	1	
PE12.13	Discuss the RDA, dietary sources of Vitamin K and their role in health and disease	3	0	2	1	2	1	1	
PE12.14	Describe the causes, clinical features, diagnosis management and prevention of deficiency of Vitamin K	3	2	1	1	2	2	1	
PE12.15	Discuss the RDA, dietary sources of Vitamin B and their role in health and disease	3	1	1	1	2	2	1	
PE12.16	Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamins	3	1	1	1	2	2	1	

Number	COMPETENCY The student should be able to								
PE12.17	Identify the clinical features of Vitamin B complex deficiency	3	1	0	1	1	1	1	
PE12.18	Diagnose patients with Vitamin B complex deficiency and plan management	3	0	1	0	1	2	1	
PE12.19	Discuss the RDA , dietary sources of Vitamin C and their role in Health and disease	3	2	1	0	1	1	2	
PE12.20	Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin C (scurvy)	3	1	1	1	1	1	1	
PE12.21	Identify the clinical features of Vitamin C deficiency	3	1	0	0	1	1	1	
PE13.1	Discuss the RDA, dietary sources of Iron and their role in health and disease	3	2	2	2	2	2	1	
PE13.2	Describe the causes, diagnosis and management of Fe deficiency	3	1	1	1	2	2	2	
PE13.3	Identify the clinical features of dietary deficiency of Iron and make a diagnosis	3	1	1	1	2	2	1	
PE13.4	Interpret hemogram and Iron Panel	3	0	0	1	2	2	1	
PE13.5	Propose a management plan for Fe deficiency anaemia	3	0	1	0	1	2	1	
PE13.6	Discuss the National anaemia control program and its recommendations	3	3	2	0	2	0	0	

Number	COMPETENCY The student should be able to								
PE13.7	Discuss the RDA , dietary sources of Iodine and their role in Health and disease	3	2	2	0	2	1	1	
PE13.8	Describe the causes, diagnosis and management of deficiency of Iodine	3	2	1	1	2	2	1	
PE13.9	Identify the clinical features of Iodine deficiency disorders	3	0	0	0	2	0	0	
PE13.10	Discuss the National Goiter Control program and their recommendations	3	3	2	1	2	1	1	
PE13.11	Discuss the RDA, dietary sources of Calcium and their role in health and disease	3	2	2	1	1	2	2	
PE13.12	Describe the causes, clinical features, diagnosis and management of Ca Deficiency	3	2	2	1	2	2	2	
PE13.13	Discuss the RDA, dietary sources of Magnesium and their role in health and disease	3	1	1	2	2	2	2	
PE13.14	Describe the causes, clinical features, diagnosis and management of Magnesium Deficiency	3	1	1	2	2	1	2	
Topic: Toxic elements and free radicals andoxygentoxicity									
			Number ofcompetencies:(05)			Number of procedures that require certification(NIL)			
PE14.1	Discuss the risk factors, clinical features, diagnosis and management of Lead Poisoning	3	2	2	1	2	2	2	
PE14.2	Discuss the risk factors, clinical features, diagnosis and management of Kerosene ingestion	3	2	3	0	2	1	1	
PE14.3	Discuss the risk factors, clinical features, diagnosis and management of Organophosphorous poisoning	3	2	3	1	2	2	2	

Number	COMPETENCY The student should be able to								
PE14.4	Discuss the risk factors, clinical features, diagnosis and management of paracetamol poisoning	3	1	2	1	2	2	1	
PE14.5	Discuss the risk factors, clinical features, diagnosis and management of Oxygen toxicity	3	2	3	2	2	1	2	
Topic: Fluid and electrolyte balance Number of competencies: (07) Number of procedures that require certification: (NIL)									
PE15.1	Discuss the fluid and electrolyte requirement in health and disease	3	2	2	2	2	2	2	
PE15.2	Discuss the clinical features and complications of fluid and electrolyte imbalance and outline the management	3	1	1	2	2	2	2	
PE15.3	Calculate the fluid and electrolyte requirement in health	3	1	1	2	2	2	1	
PE15.4	Interpret electrolyte report	3	1	1	2	2	3	2	
PE15.5	Calculate fluid and electrolyte imbalance	3	1	0	2	2	2	0	
PE15.6	Demonstrate the steps of inserting an IV cannula in a model	3	2	1	2	3	1	0	
PE15.7	Demonstrate the steps of inserting an interosseous line in a mannequin	3	2	2	2	2	1	0	
Topic: Integrated Management of Neonatal and Childhood Illnesses (IMNCI) Guideline Number of competencies: (03) Number of procedures that require certification: (NIL)									
PE16.1	Explain the components of Integrated Management of Neonatal and Childhood Illnesses (IMNCI) guidelines and method of Risk stratification	3	3	3	2	1	2	1	

Number	COMPETENCY The student should be able to								
PE16.2	Assess children <2 months using IMNCI Guidelines	3	1	2	2	2	2	1	
PE16.3	Assess children >2 to 5 years using IMNCI guidelines and Stratify Risk	3	1	2	2	2	2	1	
Topic: The National Health programs, NHM		Number of competencies:(02)			Number of procedures that require certification:(NIL)				
PE17.1	State the vision and outline the goals, strategies and plan of action of NHM and other important national programs pertaining to maternal and child health including RMNCH A+, RBSK, RKSK, JSSK mission Indradhanush and ICDS	3	3	3	2	2	1	2	
PE17.2	Analyse the outcomes and appraise the monitoring and evaluation of NHM	3	2	1	1	3	3	2	
Topic: The National Health Programs: RCH		Number of competencies:(08)			Number of procedures that require certification:(NIL)				
PE18.1	List and explain the components, plan, outcome of Reproductive Child Health (RCH) program and appraise its monitoring and evaluation	3	3	2	1	2	2	2	
PE18.2	Explain preventive interventions for child survival and safe motherhood	3	2	2	2	2	2	2	
PE18.3	Conduct Antenatal examination of women independently and apply at-risk approach in antenatal care	3	2	2	1	2	2	2	
PE18.4	Provide intra-natal care and conduct a normal delivery in a simulated environment	3	2	2	2	2	1	0	
PE18.5	Provide intra-natal care and observe the conduct of a normal delivery	3	0	2	2	2	1	1	

Number	COMPETENCY The student should be able to								
PE18.6	Perform Postnatal assessment of newborn and mother, provide advice on breast feeding, weaning and on family planning	3	3	3	1	2	1	1	
PE18.7	Educate and counsel caregivers of children	3	3	3	0	2	0	1	
PE18.8	Observe the implementation of the program by visiting the Rural Health Centre	3	3	2	0	2	0	1	
Topic: National Programs, RCH-Universal Immunizations program Number of competencies: (16) Number of procedures that require certification: (01)									
PE19.1	Explain the components of the Universal Immunization Program and the National Immunization Program	3	3	3	2	2	1	2	
PE19.2	Explain the epidemiology of Vaccine preventable diseases	3	3	2	2	2	1	2	
PE19.3	Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and contraindications	3	3	3	3	3	2	3	
PE19.4	Define cold chain and discuss the methods of safe storage and handling of vaccines	3	3	2	1	2	0	1	
PE19.5	Discuss immunization in special situations – HIV positive children, immunodeficiency, pre-term, organ transplants, those who received blood and blood products, splenectomised children, adolescents, travellers	3	2	3	2	3	2	1	

PE19.6	Assess patient for fitness for immunization and prescribe an age appropriate immunization schedule	3	3	2	2	3	2	2	
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Number	COMPETENCY The student should be able to								
PE19.7	Educate and counsel a patient for immunization	3	3	3	1	2	1	0	
PE19.8	Demonstrate willingness to participate in the National and sub national immunisation days	3	3	3	1	2	0	0	
PE19.9	Describe the components of safe vaccine practice – Patient education/ counselling; adverse events following immunization, safe injection practices, documentation and Medico-legal implications	3	3	3	2	3	1	2	
PE19.10	Observe the handling and storing of vaccines	3	3	1	1	2	2	1	
PE19.11	Document Immunization in an immunization record	3	2	1	1	2	0	0	
PE19.12	Observe the administration of UIP vaccines	3	3	1	0	2	0	0	
PE19.13	Demonstrate the correct administration of different vaccines in a mannequin	3	3	2	0	2	0	0	
PE19.14	Practice Infection control measures and appropriate handling of the sharps	3	3	3	1	3	0	0	
PE19.15	Explain the term implied consent in Immunization services	3	3	3	0	2	0	0	
PE19.16	Enumerate available newer vaccines and their indications including pentavalent pneumococcal, rotavirus, JE, typhoid IPV & HPV	3	3	3	2	3	1	2	

Topic: Care of the Normal New born, and High risk Newborn

Number of competencies:(20)

Number of procedures that require certification:(NIL)

Number	COMPETENCY The student should be able to								
PE20.1	Define the common neonatal nomenclatures including the classification and describe the characteristics of a Normal Term Neonate and High Risk Neonates	3	1	2	1	2	0	0	
PE20.2	Explain the care of a normal neonate	3	2	3	0	2	1	1	
PE20.3	Perform Neonatal resuscitation in a manikin	3	3	2	2	3	0	0	
PE20.4	Assessment of a normal neonate	3	3	2	1	2	0	0	
PE20.5	Counsel / educate mothers on the care of neonates	3	1	3	1	2	0	0	
PE20.6	Explain the follow up care for neonates including Breast Feeding, Temperature maintenance, immunization, importance of growth monitoring and red flags	3	3	3	2	3	1	1	
PE20.7	Discuss the etiology, clinical features and management of Birth asphyxia	3	3	1	3	3	2	2	
PE20.8	Discuss the etiology, clinical features and management of respiratory distress in New born including meconium aspiration and transient tachypnoea of newborn	3	2	2	2	3	1	2	
PE20.9	Discuss the etiology, clinical features and management of Birth injuries	3	2	2	2	2	1	2	
PE20.10	Discuss the etiology, clinical features and management of Hemorrhagic disease of New born	3	1	1	1	2	1	2	

Number	COMPETENCY The student should be able to								
PE20.11	Discuss the clinical characteristics, complications and management of Low birth weight (preterm and Small for gestation)	3	2	2	2	3	1	2	
PE20.12	Discuss the temperature regulation in neonates, clinical features and management of Neonatal Hypothermia	3	2	2	2	3	1	1	
PE20.13	Discuss the temperature regulation in neonates, clinical features and management of Neonatal Hypoglycemia	3	1	2	2	3	1	2	
PE20.14	Discuss the etiology, clinical features and management of Neonatal hypocalcemia	3	1	1	2	2	1	2	
PE20.15	Discuss the etiology, clinical features and management of Neonatal seizures	3	2	2	2	2	2	2	
PE20.16	Discuss the etiology, clinical features and management of Neonatal Sepsis	3	2	2	3	3	2	2	
PE20.17	Discuss the etiology, clinical features and management of Perinatal infections	3	2	2	2	2	2	2	
PE20.18	Identify and stratify risk in a sick neonate using IMNCI guidelines	3	3	2	1	2	2	2	
PE20.19	Discuss the etiology, clinical features and management of Neonatal hyperbilirubinemia	3	2	2	2	2	2	2	
PE20.20	Identify clinical presentations of common surgical conditions in the new born including TEF, esophageal atresia, anal atresia, cleft lip and palate, congenital diaphragmatic hernia and causes of acute abdomen	3	2	2	2	2	2	2	

Topic:Genito-Urinarysystem

Number ofcompetencies:(17)

Numberofprocedureshatrequire certification:(NIL)

Number	COMPETENCY The student should be able to								
PE21.1	Enumerate the etio-pathogenesis, clinical features, complications and management of Urinary Tract infection in children	3	1	2	2	2	2	2	
PE21.2	Enumerate the etio-pathogenesis, clinical features, complications and management of acute post-streptococcal Glomerular Nephritis in children	3	1	1	1	2	2	2	
PE21.3	Discuss the approach and referral criteria to a child with Proteinuria	3	1	2	2	3	2	2	
PE21.4	Discuss the approach and referral criteria to a child with Hematuria	3	1	1	1	3	2	2	
PE21.5	Enumerate the etio-pathogenesis, clinical features, complications and management of Acute Renal Failure in children	3	1	1	2	3	2	2	
PE21.6	Enumerate the etio-pathogenesis, clinical features, complications and management of Chronic Renal Failure in Children	3	2	2	2	3	2	2	
PE21.7	Enumerate the etio-pathogenesis, clinical features, complications and management of Wilms Tumor	3	1	1	1	2	2	2	
PE21.8	Elicit, document and present a history pertaining to diseases of the Genitourinary tract	3	0	2	0	2	1	0	
PE21.9	Identify external markers for Kidney disease, like Failing to thrive, hypertension, pallor, Icthyosis, anasarca	3	2	2	2	3	2	2	
PE21.10	Analyse symptom and interpret the physical findings and arrive at an appropriate provisional / differential diagnosis	3	1	1	3	3	3	2	
PE21.11	Perform and interpret the common analytes in a Urine examination	3	1	1	0	1	1	0	
PE21.12	Interpret report of Plain X Ray of KUB	3	0	1	2	2	2	1	

Number	COMPETENCY The student should be able to								
PE21.13	Enumerate the indications for and Interpret the written report of Ultra sonogram of KUB	3	1	1	1	2	1	0	
PE21.14	Recognize common surgical conditions of the abdomen and genitourinary system and enumerate the indications for referral including acute and subacute intestinal obstruction, appendicitis, pancreatitis, perforation intussusception, Phimosis, undescended testis, Chordee, hypospadiasis, Torsion testis, hernia Hydrocele, Vulval Synechiae	3	1	2	2	3	2	2	
PE21.15	Discuss and enumerate the referral criteria for children with genitourinary disorder	3	1	2	1	2	2	1	
PE21.16	Counsel / educate a patient for referral appropriately	3	2	3	0	3	1	2	
PE21.17	Describe the etiopathogenesis, grading, clinical features and management of hypertension in children	3	1	2	2	3	2	2	
Topic: Approach to and recognition of a child with possible Rheumatologic problem									
<p style="text-align: center;">Number ofcompetencies:(03) Number of procedures that require certification:(NIL)</p>									
PE22.1	Enumerate the common Rheumatological problems in children. Discuss the clinical approach to recognition and referral of a child with Rheumatological problem	3	0	2	2	2	1	0	
PE22.2	Counsel a patient with Chronic illness	3	1	3	0	2	1	0	
PE22.3	Describe the diagnosis and management of common vasculitic disorders including Henoch Schonlein Purpura, Kawasaki Disease, SLE, JIA	3	0	2	3	3	3	3	
Topic: Cardiovascular system-HeartDiseases									
<p style="text-align: center;">Number ofcompetencies: (18) Number of procedures that requirecertification:(NIL)</p>									
PE23.1	Discuss the Hemodynamic changes, clinical presentation, complications and management of Acyanotic Heart Diseases –VSD, ASD and PDA	3	2	2	2	2	2	2	

Number	COMPETENCY The student should be able to								
PE23.2	Discuss the Hemodynamic changes, clinical presentation, complications and management of Cyanotic Heart Diseases – Fallot’s Physiology	3	1	2	2	2	2	2	
PE23.3	Discuss the etio-pathogenesis, clinical presentation and management of cardiac failure in infant and children	3	2	2	3	3	2	2	
PE23.4	Discuss the etio-pathogenesis, clinical presentation and management of Acute Rheumatic Fever in children	3	1	1	1	2	1	1	
PE23.5	Discuss the clinical features, complications, diagnosis, management and prevention of Acute Rheumatic Fever	3	2	2	1	2	1	1	
PE23.6	Discuss the etio-pathogenesis, clinical features and management of Infective endocarditis in children	3	1	1	1	2	1	2	
PE23.7	Elicit appropriate history for a cardiac disease, analyse the symptoms e.g. breathlessness, chest pain, tachycardia, feeding difficulty, failing to thrive, reduced urinary output, swelling, syncope, cyanotic spells, Suck rest cycle, frontal swelling in infants. Document and present	3	2	3	2	2	2	1	
PE23.8	Identify external markers of a cardiac disease e.g. Cyanosis, Clubbing, dependent edema, dental caries, arthritis, erythema rash, chorea, subcutaneous nodules, Osler’s node, Janeway lesions and document	3	2	2	2	2	2	2	
PE23.9	Record pulse, blood pressure, temperature and respiratory rate and interpret as per the age	3	2	2	1	2	2	2	
PE23.10	Perform independently examination of the cardiovascular system – look for precordial bulge, pulsations in the precordium, JVP and its significance in children and infants, relevance of percussion in Pediatric examination, Auscultation and other system examination and document	3	1	1	1	3	2	1	

Number	COMPETENCY The student should be able to								
PE23.11	Develop a treatment plan and prescribe appropriate drugs including fluids in cardiac diseases, anti -failure drugs, and inotropic agents	3	1	1	3	3	3	3	
PE23.12	Interpret a chest X ray and recognize Cardiomegaly	3	1	0	1	2	1	1	
PE23.13	Choose and Interpret blood reports in Cardiac illness	3	1	1	2	3	2	2	
PE23.14	Interpret Pediatric ECG	3	0	0	2	3	3	1	
PE23.15	Use the ECHO reports in management of cases	3	1	2	1	3	2	1	
PE23.16	Discuss the indications and limitations of Cardiac catheterization	3	1	2	3	3	1	2	
PE23.17	Enumerate some common cardiac surgeries like BT shunt, Potts and Waterston's and corrective surgeries	3	1	2	3	3	1	1	
PE23.18	Demonstrate empathy while dealing with children with cardiac diseases in every patient encounter	3	2	3	1	3	0	0	
Topic:DiarrhoealdiseasesandDehydration		Number ofcompetencies:(17)			Number of procedures that requirecertification:(03)				
PE24.1	Discuss the etio-pathogenesis, classification, clinical presentation and management of diarrheal diseases in children	3	2	3	2	2	1	2	
PE24.2	Discuss the classification and clinical presentation of various types of diarrheal dehydration	3	2	2	1	2	1	1	

Number	COMPETENCY The student should be able to								
PE24.3	Discuss the physiological basis of ORT, types of ORS and the composition of various types of ORS	3	3	3	1	2	1	2	
PE24.4	Discuss the types of fluid used in Paediatric diarrheal diseases and their composition	3	1	2	1	2	1	1	
PE24.5	Discuss the role of antibiotics, antispasmodics, anti-secretory drugs, probiotics, anti-emetics in acute diarrheal diseases	3	2	2	1	3	2	2	
PE24.6	Discuss the causes, clinical presentation and management of persistent diarrhoea in children	3	1	1	1	2	2	2	
PE24.7	Discuss the causes, clinical presentation and management of chronic diarrhoea in children	3	0	2	2	2	2	2	
PE24.8	Discuss the causes, clinical presentation and management of dysentery in children	3	1	1	1	2	2	2	
PE24.9	Elicit, document and present history pertaining to diarrheal diseases	3	1	2	0	2	1	0	
PE24.10	Assess for signs of dehydration, document and present	3	3	4	1	2	1	0	
PE24.11	Apply the IMNCI guidelines in risk stratification of children with diarrheal dehydration and refer	3	3	3	1	3	1	1	
PE24.12	Perform and interpret stool examination including Hanging Drop	3	1	1	0	1	1	0	
PE24.13	Interpret RFT and electrolyte report	3	0	1	2	3	2	2	
PE24.14	Plan fluid management as per the WHO criteria	3	2	2	2	2	2	1	

Number	COMPETENCY The student should be able to								
PE24.15	Perform NG tube insertion in a manikin	3	2	2	1	2	0	0	
PE24.16	Perform IV cannulation in a model	3	2	2	1	2	1	0	
PE24.17	Perform Interosseous insertion model	3	1	1	2	2	1	0	
Topic:Malabsorption		Number ofcompetencies:(01)			Number of procedures that requirecertification:(NIL)				
PE25.1	Discuss the etio-pathogenesis, clinical presentation and management of Malabsorption in Children and its causes including celiac disease	3	1	1	2	2	2	2	
Topic: Acute and chronicliverdisorders		Number ofcompetencies:(13)			Number of procedures that require certification:(NIL)				
PE26.1	Discuss the etio-pathogenesis, clinical features and management of acute hepatitis in children	3	2	2	2	2	1	1	
PE26.2	Discuss the etio-pathogenesis, clinical features and management of Fulminant Hepatic Failure in children	3	0	1	2	3	2	3	
PE26.3	Discuss the etio-pathogenesis, clinical features and management of chronic liver diseases in children	3	0	1	2	2	2	2	
PE26.4	Discuss the etio-pathogenesis, clinical features and management of Portal Hypertension in children	3	0	1	2	2	2	2	
PE26.5	Elicit document and present the history related to diseases of Gastrointestinal system	3	1	2	0	2	1	0	
PE26.6	Identify external markers for GI and Liver disorders e.g.. Jaundice, Pallor, Gynaecomastia, Spider angioma, Palmar erythema, Icthyosis, Caput medusa, Clubbing, Failing to thrive, Vitamin A and D deficiency	3	1	1	2	2	2	1	

Number	COMPETENCY The student should be able to								
PE26.7	Perform examination of the abdomen, demonstrate organomegaly, ascites etc.	3	2	2	0	2	1	0	
PE26.8	Analyse symptoms and interpret physical signs to make a provisional/ differential diagnosis	3	0	1	2	3	2	1	
PE26.9	Interpret Liver Function Tests, viral markers, ultra sonogram report	3	0	1	2	3	2	2	
PE26.10	Demonstrate the technique of liver biopsy in a Perform Liver Biopsy in a simulated environment	3	0	1	2	3	1	1	
PE26.11	Enumerate the indications for Upper GI endoscopy	3	0	1	2	3	2	1	
PE26.12	Discuss the prevention of Hep B infection – Universal precautions and Immunisation	3	3	3	2	3	1	1	
PE26.13	Counsel and educate patients and their family appropriately on liver diseases	3	1	2	1	2	0	0	
Topic: Pediatric Emergencies – Common Pediatric Emergencies Number of competencies:(35) Number of procedures that require certification:(10)									
PE27.1	List the common causes of morbidity and mortality in the under five children	3	3	3	2	3	0	2	
PE27.2	Describe the etio-pathogenesis, clinical approach and management of cardiorespiratory arrest in children	3	3	3	3	3	2	3	
PE27.3	Describe the etio-pathogenesis of respiratory distress in children	3	1	1	2	2	1	2	

Number	COMPETENCY The student should be able to								
PE27.4	Describe the clinical approach and management of respiratory distress in children	3	2	1	3	3	2	2	
PE27.5	Describe the etio-pathogenesis, clinical approach and management of Shock in children	3	3	1	3	3	3	3	
PE27.6	Describe the etio-pathogenesis, clinical approach and management of Status epilepticus	3	1	2	2	3	2	2	
PE27.7	Describe the etio-pathogenesis, clinical approach and management of an unconscious child	3	2	2	2	3	3	2	
PE27.8	Discuss the common types, clinical presentations and management of poisoning in children	3	2	2	3	3	3	3	
PE27.9	Discuss oxygen therapy, in Pediatric emergencies and modes of administration	3	2	2	3	3	2	2	
PE27.10	Observe the various methods of administering Oxygen	3	2	2	2	2	1	2	
PE27.11	Explain the need and process of triage of sick children brought to health facility	3	3	3	3	3	2	1	
PE27.12	Enumerate emergency signs and priority signs	3	3	3	3	3	2	1	
PE27.13	List the sequential approach of assessment of emergency and priority signs	3	3	2	1	3	2	0	
PE27.14	Assess emergency signs and prioritize	3	3	2	1	3	2	1	
PE27.15	Assess airway and breathing: recognise signs of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting	3	3	3	1	2	0	1	

Number	COMPETENCY The student should be able to								
PE27.16	Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment	3	3	3	3	3	2	2	
PE27.17	Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate	3	3	3	2	3	1	1	
PE27.18	Assess airway and breathing: perform assisted ventilation by Bag and mask in a simulated environment	3	3	2	3	3	1	2	
PE27.19	Check for signs of shock i.e. pulse, Blood pressure, CRT	3	2	2	2	2	1	1	
PE27.20	Secure an IV access in a simulated environment	3	2	1	2	2	1	0	
PF27.21	Choose the type of fluid and calculate the fluid requirement in shock	3	1	1	3	3	3	3	
PE27.22	Assess level of consciousness & provide emergency treatment to a child with convulsions/ coma - Position an unconscious child - Position a child with suspected trauma - Administer IV/per rectal Diazepam for a convulsing child in a simulated environment	3	2	2	3	3	2	2	
PE27.23	Assess for signs of severe dehydration	3	3	2	1	2	1	1	
PE27.24	Monitoring and maintaining temperature: define hypothermia. Describe the clinical features, complications and management of Hypothermia	3	2	2	1	2	2	2	
PE27.25	Describe the advantages and correct method of keeping an infant warm by skin to skin contact	3	3	3	1	2	0	1	

Number	COMPETENCY The student should be able to								
PE27.26	Describe the environmental measures to maintain temperature	3	3	3	0	2	0	1	
PE27.27	Assess for hypothermia and maintain temperature	3	3	3	0	2	0	1	
PE27.28	Provide BLS for children in manikin	3	3	3	3	3	2	2	
PE.27.29	Discuss the common causes, clinical presentation, medico-legal implications of abuse	3	2	2	1	2	2	1	
PE27.30	Demonstrate confidentiality with regard to abuse	3	3	3	0	3	0	0	
PE27.31	Assess child for signs of abuse	3	2	2	1	2	1	0	
PE27.32	Counsel parents of dangerously ill / terminally ill child to break a bad news	3	2	3	0	2	0	0	
PE27.33	Obtain Informed Consent	3	2	2	0	2	0	0	
PE27.34	Willing to be a part of the ER team	3	2	2	0	2	0	0	
PE27.35	Attends to emergency calls promptly	3	3	3	0	3	0	0	
PE28.1	Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis	3	1	0	0	1	2	1	
PE28.2	Discuss the etio-pathogenesis of Pharyngo Tonsillitis	3	1	0	0	1	1	1	

Number	COMPETENCY The student should be able to								
PE28.3	Discuss the clinical features and management of Pharyngo Tonsillitis	3	2	1	1	2	1	1	
PE28.4	Discuss the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM)	3	2	1	1	2	1	1	
PE28.5	Discuss the etio-pathogenesis, clinical features and management of Epiglottitis	3	2	2	2	2	2	2	
PE28.6	Discuss the etio-pathogenesis, clinical features and management of Acute laryngo- trachea-bronchitis	3	2	1	2	2	1	1	
PE28.7	Discuss the etiology, clinical features and management of Stridor in children	3	3	2	2	3	2	2	
PE28.8	Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children	3	3	2	2	3	2	2	
PE28.9	Elicit, document and present age appropriate history of a child with upper respiratory problem including Stridor	3	1	2	0	2	0	0	
PE28.10	Perform otoscopic examination of the ear	3	3	2	1	2	1	0	
PE28.11	Perform throat examination using tongue depressor	3	3	2	1	2	2	0	
PE28.12	Perform examination of the nose	3	2	2	1	2	1	0	
PE28.13	Analyse the clinical symptoms and interpret physical findings and make a provisional / differential diagnosis in a child with ENT symptoms	3	1	1	3	3	3	1	
PE28.14	Develop a treatment plan and document appropriately in a child with upper respiratory symptoms	3	3	2	1	2	1	1	

Number	COMPETENCY The student should be able to								
PE28.15	Stratify risk in children with stridor using IMNCI guidelines	3	3	2	1	2	2	2	
PE28.16	Interpret blood tests relevant to upper respiratory problems	3	1	0	1	2	2	1	
PE28.17	Interpret X-ray of the paranasal sinuses and mastoid; and /or use written report in case of management Interpret CXR in foreign body aspiration and lower respiratory tract infection, understand the significance of thymic shadow in pediatric chest X-rays	3	1	1	2	3	3	1	
PE28.18	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of lower respiratory infections including bronchiolitis, wheeze associated LRTI Pneumonia and empyema	3	3	2	3	3	2	2	
PE28.19	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of asthma in children	3	3	2	2	2	2	2	
PE28.20	Counsel the child with asthma on the correct use of inhalers in a simulated environment	3	2	3	1	2	0	1	
Topic:AnemiaandotherHemato-oncologicdisordersinchildren Number of competencies:(20) Number of procedures that require certification:(NIL)									
PE29.1	Discuss the etio-pathogenesis, clinical features, classification and approach to a child with anaemia	3	2	2	2	2	2	2	
PE29.2	Discuss the etio-pathogenesis, clinical features and management of Iron Deficiency anaemia	3	3	2	2	2	1	2	

Number	COMPETENCY The student should be able to								
PE29.3	Discuss the etiopathogenesis, clinical features and management of VIT B12, Folate deficiency anaemia	3	3	3	2	2	1	2	
PE29.4	Discuss the etio-pathogenesis, clinical features and management of Hemolytic anemia, Thalassemia Major, Sickle cell anaemia, Hereditary spherocytosis, Auto-immune hemolytic anaemia and hemolytic uremic syndrome	3	3	3	3	3	2	3	
PE29.5	Discuss the National Anaemia Control Program	3	3	2	1	2	1	1	
PE29.6	Discuss the cause of thrombocytopenia in children: describe the clinical features and management of Idiopathic Thrombocytopenic Purpura (ITP)	3	1	2	2	2	2	2	
PE29.7	Discuss the etiology, classification, pathogenesis and clinical features of Hemophilia in children	3	1	2	2	2	2	2	
PE29.8	Discuss the etiology, clinical presentation and management of Acute Lymphoblastic Leukemia in children	3	1	2	3	3	2	3	
PE29.9	Discuss the etiology, clinical presentation and management of lymphoma in children	3	1	2	3	3	2	3	
PE29.10	Elicit, document and present the history related to Hematology	3	2	3	0	2	0	0	
PE29.11	Identify external markers for hematological disorders e.g.. Jaundice, Pallor, Petechiae purpura, Ecchymosis, Lymphadenopathy, bone tenderness, loss of weight, Mucosal and large joint bleed	3	3	2	1	2	1	0	
PE29.12	Perform examination of the abdomen, demonstrate organomegaly	3	3	2	0	2	2	1	

Number	COMPETENCY The student should be able to								
PE29.13	Analyse symptoms and interpret physical signs to make a provisional/ differential diagnosis	3	2	0	3	3	3	1	
PE29.14	Interpret CBC, LFT	3	2	0	1	2	2	1	
PE29.15	Perform and interpret peripheral smear	3	1	0	1	2	2	1	
PE29.16	Discuss the indications for Hemoglobin electrophoresis and interpret report	3	2	2	2	2	2	2	
PE29.17	Demonstrate performance of bone marrow aspiration in manikin	3	2	1	2	2	1	0	
PE29.18	Enumerate the referral criteria for Hematological conditions	3	3	2	1	2	1	0	
PE29.19	Counsel and educate patients about prevention and treatment of anemia	3	3	3	0	2	0	1	
PE29.20	Enumerate the indications for splenectomy and precautions	3	1	2	2	2	2	2	
Topic: Systemic Pediatrics-Central Nervous System									
			Number of competencies:(23)			Number of procedures that require certification:(NIL)			
PE30.1	Discuss the etio-pathogenesis, clinical features , complications, management and prevention of meningitis in children	3	1	2	3	3	3	2	
PE30.2	Distinguish bacterial, viral and tuberculous meningitis	3	0	1	3	3	3	3	
PE30.3	Discuss the etio-pathogenesis, classification, clinical features, complication and management of Hydrocephalus in children	3	1	2	2	2	2	2	

Number	COMPETENCY The student should be able to								
PE30.4	Discuss the etio-pathogenesis, classification, clinical features, and management of Microcephaly in children	3	2	2	1	2	3	2	
PE30.5	Enumerate the Neural tube defects. Discuss the causes, clinical features, types, and management of Neural Tube defect	3	2	2	2	2	2	2	
PE30.6	Discuss the etio-pathogenesis, clinical features, and management of Infantile hemiplegia	3	1	2	1	2	2	1	
PE30.7	Discuss the etio-pathogenesis, clinical features, complications and management of Febrile seizures in children	3	2	2	1	2	1	1	
PE30.8	Define epilepsy. Discuss the pathogenesis, clinical types, presentation and management of Epilepsy in children	3	1	2	3	3	3	3	
PE30.9	Define status Epilepticus. Discuss the clinical presentation and management	3	0	1	3	3	3	2	
PE30.10	Discuss the etio-pathogenesis, clinical features and management of Mental retardation in children	3	2	2	3	2	2	1	
PE30.11	Discuss the etio-pathogenesis, clinical features and management of children with cerebral palsy	3	2	2	2	2	2	1	
PE30.12	Enumerate the causes of floppiness in an infant and discuss the clinical features, differential diagnosis and management	3	1	2	2	2	3	2	
PE30.13	Discuss the etio-pathogenesis, clinical features, management and prevention of Poliomyelitis in children	3	3	3	1	3	1	1	
PE30.14	Discuss the etio-pathogenesis, clinical features and management of Duchene muscular dystrophy	3	1	2	2	2	2	2	
PE30.15	Discuss the etio-pathogenesis, clinical features and management of Ataxia in children	3	0	1	3	2	2	1	

Number	COMPETENCY The student should be able to								
PE30.16	Discuss the approach to and management of a child with headache	3	0	1	2	2	3	2	
PE30.17	Elicit document and present an age appropriate history pertaining to the CNS	3	0	3	0	2	3	1	
PE30.18	Demonstrate the correct method for physical examination of CNS including identification of external markers. Document and present clinical findings	3	2	2	0	2	2	1	
PE30.19	Analyse symptoms and interpret physical findings and propose a provisional / differential diagnosis	3	0	2	3	3	3	1	
PE30.20	Interpret and explain the findings in a CSF analysis	3	0	1	1	2	2	2	
PE30.21	Enumerate the indication and discuss the limitations of EEG, CT, MRI	3	0	1	1	2	2	1	
PE30.22	Interpret the reports of EEG, CT, MRI	3	0	1	3	2	2	1	
PE30.23	Perform in a mannequin lumbar puncture. Discuss the indications, contraindication of the procedure	3	2	2	1	2	1	1	
Topic: Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema <div style="display: flex; justify-content: space-between;"> Number ofcompetencies:(12) Number of procedures that require certification:(NIL) </div>									
PE31.1	Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children	3	0	0	1	2	2	2	
PE31.2	Recognize the clinical signs of Allergic Rhinitis	3	0	0	1	2	1	2	
PE31.3	Describe the etio-pathogenesis, clinical features and management of Atopic dermatitis in Children	3	1	2	1	2	1	2	

Number	COMPETENCY The student should be able to								
PE31.4	Identify Atopic dermatitis and manage	3	0	2	1	2	2	2	
PE31.5	Discuss the etio-pathogenesis, clinical types, presentations, management and prevention of childhood Asthma	3	0	2	2	2	2	2	
PE31.6	Recognise symptoms and signs of Asthma	3	1	2	2	2	2	2	
PE31.7	Develop a treatment plan for Asthma appropriate to clinical presentation & severity	3	0	2	3	2	3	2	
PE31.8	Enumerate criteria for referral	3	2	2	0	2	2	1	
PE31.9	Interpret CBC and CX Ray in Asthma	3	0	1	2	2	2	1	
PE31.10	Enumerate the indications for PFT	3	0	1	2	2	2	1	
PE31.11	Observe administration of Nebulisation	3	2	2	1	0	0	1	
PE31.12	Discuss the etio-pathogenesis, clinical features and complications and management of Urticaria Angioedema	3	2	2	2	2	2	2	
Topic:ChromosomalAbnormalities		Number ofcompetencies:(13)			Number of procedures that require certification:(NIL)				
PE32.1	Discuss the genetic basis, risk factors, complications, prenatal diagnosis, management and genetic counselling in Down's Syndrome	3	2	3	3	2	2	2	

Number	COMPETENCY The student should be able to								
PE32.2	Identify the clinical features of Down's Syndrome	3	2	2	1	2	1	0	
PE32.3	Interpret normal Karyotype and recognize Trisomy 21	3	0	2	2	2	2	2	
PE32.4	Discuss the referral criteria and Multidisciplinary approach to management	3	2	2	2	2	2	2	
PE32.5	Counsel parents regarding 1. Present child 2. Risk in the next pregnancy	3	2	3	2	3	2	1	
PE32.6	Discuss the genetic basis, risk factors, clinical features, complications, prenatal diagnosis, management and genetic counselling in Turner's Syndrome	3	1	3	2	2	2	1	
PE32.7	Identify the clinical features of Turner Syndrome	3	1	0	0	2	1	0	
PE32.8	Interpret normal Karyotype and recognize the Turner Karyotype	3	2	2	1	2	2	2	
PE32.9	Discuss the referral criteria and multidisciplinary approach to management of Turner Syndrome	3	1	2	1	3	3	2	
PE32.10	Counsel parents regarding 1. Present child 2. Risk in the next pregnancy	3	1	3	1	2	1	2	
PE32.11	Discuss the genetic basis, risk factors, complications, prenatal diagnosis, management and genetic counselling in Klinefelter Syndrome	3	1	2	2	2	2	2	

Number	COMPETENCY The student should be able to								
PE32.12	Identify the clinical features of Klinefelter Syndrome	3	2	1	1	2	1	0	
PE32.13	Interpret normal Karyotype and recognize the Klinefelter Karyotype	3	0	1	2	2	2	1	
Topic: Endocrinology		Number of competencies:(11)			Number of procedures that require certification:(02)				
PE33.1	Describe the etio-pathogenesis clinical features, management of Hypothyroidism in children	3	3	2	2	2	2	2	
PE33.2	Recognize the clinical signs of Hypothyroidism and refer	3	2	2	2	2	1	0	
PE33.3	Interpret and explain neonatal thyroid screening report	3	3	3	2	3	2	2	
PE33.4	Discuss the etio-pathogenesis, clinical types, presentations, complication and management of Diabetes mellitus in children	3	2	2	2	2	2	2	
PE33.5	Interpret Blood sugar reports and explain the diagnostic criteria for Type 1 Diabetes	3	1	1	2	2	2	2	
PE33.6	Perform and interpret Urine Dip Stick for Sugar	3	3	3	0	1	0	1	
PE33.7	Perform genital examination and recognize Ambiguous Genitalia and refer appropriately	3	0	2	3	3	3	2	
PE33.8	Define precocious and delayed Puberty	3	1	2	2	2	2	2	

Number	COMPETENCY The student should be able to								
PE33.9	Perform Sexual Maturity Rating (SMR) and interpret	3	2	2	0	2	0	0	
PE33.10	Recognize precocious and delayed Puberty and refer	3	1	2	3	3	3	2	
PE33.11	Identify deviations in growth and plan appropriate referral	3	3	2	2	2	2	2	
Topic:Vaccine preventable Diseases-Tuberculosis Number of competencies:(20) Number of procedures that require certification:(03)									
PE34.1	Discuss the epidemiology, clinical features, clinical types, complications of Tuberculosis in Children and Adolescents	3	1	1	2	2	2	2	
PE34.2	Discuss the various diagnostic tools for childhood tuberculosis	3	2	1	2	2	2	2	
PE34.3	Discuss the various regimens for management of Tuberculosis as per National Guidelines	3	3	3	1	2	1	1	
PE34.4	Discuss the preventive strategies adopted and the objectives and outcome of the National Tuberculosis Control Program	3	3	1	1	2	2	2	
PE34.5	Able to elicit, document and present history of contact with tuberculosis in every patient encounter	3	2	3	0	2	0	0	
PE34.6	Identify a BCG scar	3	3	0	0	1	0	0	
PE34.7	Interpret a Mantoux test	3	2	1	0	1	1	1	
PE34.8	Interpret a Chest Radiograph	3	2	0	0	1	2	1	

Number	COMPETENCY The student should be able to								
PE34.9	Interpret blood tests in the context of laboratory evidence for tuberculosis	3	3	1	1	2	2	1	
PE34.10	Discuss the various samples for demonstrating the organism e.g. Gastric Aspirate, Sputum , CSF, FNAC	3	1	0	2	2	2	2	
PE34.11	Perform AFB staining	3	3	1	0	1	0	1	
PE34.12	Enumerate the indications and discuss the limitations of methods of culturing M.Tuberculi	3	2	0	1	2	1	1	
PE34.13	Enumerate the newer diagnostic tools for Tuberculosis including BACTEC CBNAAT and their indications	3	3	1	2	2	3	2	
PE34.14	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of fever in children	3	3	0	1	2	3	2	
PE34.15	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with exanthematous illnesses like Measles, Mumps, Rubella & Chicken pox	3	3	0	2	2	3	2	
PE34.16	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Diphtheria, Pertussis, Tetanus.	3	3	0	1	2	1	1	
PE34.17	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Typhoid	3	2	0	1	2	1	1	

Number	COMPETENCY The student should be able to								
PE34.18	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Dengue, Chikungunya and other vector born diseases	3	3	2	3	2	2	3	
PE34.19	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of children with Common Parasitic infections, malaria, leishmaniasis, filariasis, helminthic infestations, amebiasis, giardiasis	3	3	1	2	2	2	2	
PE34.20	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Rickettsial diseases	3	3	1	3	2	2	2	
Topic: The role of the physician in the community		Number of competencies:(01)			Number of procedures that require certification :(NIL)				
PE35.1	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as they pertain to health care in children (including parental rights and right to refuse treatment)	3	2	3	2	2	0	0	
Column C: K- Knowledge, S – Skill, A - Attitude / professionalism, C- Communication. Column D: K – Knows, KH - Knows How, SH- Shows how, P- performs independently, Column F: DOAP session – Demonstrate, Observe, Assess, Perform. Column H: If entry is P: indicate how many procedures must be done independently for certification/ graduation									
Integration									
Human Anatomy									
AN25.4	Describe embryological basis of: 1) atrial septal defect, 2)ventricular septal defect , 3)Fallot's tetralogy & 4) tracheo-oesophageal fistula	3	1	0	1	1	1	1	

Number	COMPETENCY The student should be able to								
AN25.5	Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta	3	2	0	2	1	2	1	
AN25.9	Demonstrate surface marking of lines of pleural reflection, Lung borders and fissures, Trachea, Heart borders, Apex beat & surface projection of valves of heart	3	3	0	1	1	1	0	
AN63.2	Describe anatomical basis of congenital hydrocephalus	3	1	0	1	1	1	1	
AN64.3	Describe various types of open neural tube defects with its embryological basis	3	0	0	1	1	1	1	
AN74.1	Describe the various modes of inheritance with examples	3	0	0	2	2	2	3	
AN74.2	Draw pedigree charts for the various types of inheritance & give examples of diseases of each mode of inheritance	3	3	2	1	2	2	1	
AN74.4	Describe the genetic basis & clinical features of Achondroplasia, Cystic Fibrosis, Vitamin D resistant rickets, Hemophilia, Duchene's muscular dystrophy & Sickle cell anaemia	3	2	2	2	2	2	3	
AN75.1	Describe the structural and numerical chromosomal aberrations	3	0	0	1	1	1	1	
AN75.2	Explain the terms mosaics and chimeras with example	3	0	1	1	1	1	1	
AN75.3	Describe the genetic basis & clinical features of Prader Willi syndrome, Edward syndrome & Patau syndrome	3	0	0	1	2	2	2	
AN75.4	Describe genetic basis of variation; polymorphism and mutation	3	0	0	1	2	1	2	

Number	COMPETENCY The student should be able to								
AN75.5	Describe the principles of genetic counselling	3	0	0	1	2	1	0	
Biochemistry									
PY11.6	Describe physiology of Infancy	3	2	1	1	2	1	0	
PY11.9	Interpret growth charts	3	3	1	1	2	1	1	
PY11.10	Interpret anthropometric assessment of infants	3	3	1	0	2	1	1	
BI5.3	Describe the digestion and absorption of dietary proteins	3	1	1	0	1	1	1	
BI5.4	Describe common disorders associated with protein metabolism	3	1	0	1	2	2	2	
BI7.3	Describe gene mutations and basic mechanism of regulation of gene expression	3	2	1	1	2	2	2	
BI7.4	Describe applications of recombinant DNA technology, PCR in the diagnosis and treatment of diseases with genetic basis	3	2	1	1	2	2	2	
BI8.1	Discuss the importance of various dietary components and explain importance of dietary fibre	3	2	2	1	2	0	0	
BI8.2	Describe the types and causes of protein energy malnutrition and its effects	3	3	2	1	2	1	2	

Number	COMPETENCY The student should be able to								
BI8.5	Summarize the nutritional importance of commonly used items of food including fruits and vegetables. (macro-molecules & its importance)	3	3	2	1	2	1	2	
BI10.5	Describe antigens and concepts involved in vaccine development	3	2	0	2	2	1	3	
Pathology									
PA12.2	Describe the pathogenesis of disorders caused by protein calorie malnutrition and starvation	3	3	2	1	2	2	2	
PA21.2	Classify and describe the etiology, pathogenesis and pathology of vascular and platelet disorders including ITP and hemophilias	3	1	0	2	2	2	2	
PA28.12	Define, classify and describe the genetics, inheritance etiology, pathogenesis, pathology, laboratory, urinary findings, distinguishing features, progression and complications of cystic disease of the kidney	3	1	0	2	2	2	2	
PA28.14	Classify and describe the etiology, genetics, pathogenesis, pathology, presenting features, progression and spread of renal tumors	3	1	0	2	2	2	2	
PA31.4	Enumerate and describe the etiology, hormonal dependency and pathogenesis of gynecomastia	3	1	0	2	2	3	2	
PA35.2	Classify and describe the etiology, genetics, pathogenesis, pathology, presentation sequelae and complications of CNS tumors	3	1	0	3	2	2	2	
Microbiology									

Number	COMPETENCY The student should be able to								
MI1.8	Describe the mechanisms of immunity and response of the host immune system to infections	3	2	1	2	2	2	2	
MI1.9	Discuss the immunological basis of vaccines and describe the Universal Immunisation schedule	3	3	2	1	2	1	1	
MI1.10	Describe the immunological mechanisms in immunological disorder (hypersensitivity, autoimmune disorders and immunodeficiency states) and discuss the laboratory methods used in detection	3	2	1	2	2	2	2	
MI3.1	Enumerate the microbial agents causing diarrhea and dysentery. Describe the epidemiology, morphology, pathogenesis, clinical features, and diagnostic modalities of these agents	3	3	2	2	2	1	1	
MI3.2	Identify the common etiologic agents of diarrhea and dysentery	3	2	1	2	2	2	1	
MI5.1	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of meningitis	3	2	0	2	2	2	2	
MI5.2	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of encephalitis	3	2	0	2	2	2	2	
MI5.3	Identify the microbial agents causing meningitis	3	2	0	2	2	2	2	
PH1.12	Calculate the dosage of drugs using appropriate formulae for an individual patient, including children, elderly and patient with renal dysfunction	3	3	1	3	2	2	2	

Number	COMPETENCY The student should be able to								
PH1.43	Describe and discuss the rational use of antimicrobials including antibiotic stewardship program	3	2	2	2	3	3	2	
PH1.56	Describe basic aspects of Geriatric and Pediatric pharmacology	3	2	0	2	2	2	1	
PH2.4	Demonstrate the correct method of calculation of drug dosage in patients including those used in special situations	3	2	2	2	2	2	2	
Community Medicine									
CM3.3	Describe the aetiology and basis of water borne diseases /jaundice/hepatitis/ diarrheal diseases	3	3	2	2	2	1	2	
CM5.1	Describe the common sources of various nutrients and special nutritional requirements according to age, sex, activity, physiological conditions	3	3	2	2	2	2	2	
CM5.2	Describe and demonstrate the correct method of performing a nutritional assessment of individuals, families and the community by using the appropriate method	3	3	1	1	2	2	2	
CM5.3	Define and describe common nutrition related health disorders (including macro-PEM, Micro-iron, Zn, iodine, Vit. A), their control and management.	3	3	3	3	2	2	3	
CM5.4	Plan and recommend a suitable diet for the individuals and families based on local availability of foods and economic status, etc in a simulated environment	3	3	3	1	2	2	2	

Number	COMPETENCY The student should be able to								
CM5.5	Describe the methods of nutritional surveillance, principles of nutritional education and rehabilitation in the context of socio-cultural factors	3	3	3	2	2	2	2	
CM5.6	Enumerate and discuss the National Nutrition Policy, important national nutritional Programs including the Integrated Child Development Services Scheme (ICDS) etc	3	3	3	2	2	1	2	
CM5.8	Describe and discuss the importance and methods of food fortification and effects of additives and adulteration	3	2	2	2	2	2	2	
CM6.1	Formulate a research question for a study	2	2	0	1	1	3	3	
CM6.2	Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data	2	2	0	2	2	3	3	
CM6.3	Describe, discuss and demonstrate the application of elementary statistical methods including test of significance in various study designs	2	0	0	3	2	3	3	
CM6.4	Enumerate, discuss and demonstrate common sampling techniques, simple statistical methods, frequency distribution, measures of central tendency and dispersion	2	2	0	2	2	2	3	
CM8.1	Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for communicable diseases	3	3	2	3	2	2	2	
CM8.3	Enumerate and describe disease specific National Health Programs including their prevention and treatment of a case	3	3	2	1	2	1	2	
CM8.4	Describe the principles and enumerate the measures to control a disease epidemic	3	3	2	2	2	2	2	

Number	COMPETENCY The student should be able to								
CM8.5	Describe and discuss the principles of planning, implementing and evaluating control measures for disease at community level bearing in mind the public health importance of the disease	3	3	3	2	2	2	2	
CM9.2	Define, calculate and interpret demographic indices including birth rate, death rate, fertility rates	3	2	1	1	2	1	2	
CM10.1	Describe the current status of Reproductive, maternal, newborn and Child Health	3	1	0	1	2	1	2	
CM10.2	Enumerate and describe the methods of screening high risk groups and common health problems	3	3	2	2	2	2	2	
CM10.3	Describe local customs and practices during pregnancy, childbirth, lactation and child feeding practices	3	3	3	0	1	1	1	
CM10.4	Describe the reproductive, maternal, newborn & child health (RMCH); child survival and safe motherhood interventions	3	3	3	2	2	1	2	
CM10.5	Describe Universal Immunization Program; Integrated Management of Neonatal and Childhood Illness (IMNCI) and other existing Programs	3	3	3	2	2	2	1	
Forensic Medicine & Toxicology									

Number	COMPETENCY The student should be able to								
FM1.9	Describe the importance of documentation in medical practice in regard to medicolegal examinations, Medical Certificates and medicolegal reports especially -- maintenance of patient case records, discharge summary, prescribed registers to be maintained in Health Centres. -- maintenance of medico-legal register like accident register. -- documents of issuance of wound certificate -- documents of issuance of drunkenness certificate. -- documents of issuance of sickness and fitness certificate. -- documents for issuance of death certificate. -- documents of Medical Certification of Cause of Death - Form Number 4 and 4A -- documents for estimation of age by physical, dental and radiological examination and issuance of certificate	3	3	2	1	2	2	0	
FM2.27	Define and discuss infanticide, foeticide and stillbirth	3	3	3	0	2	0	1	
FM2.28	Describe and discuss signs of intrauterine death, signs of live birth, viability of foetus, age determination of foetus, DOAP session of ossification centres, Hydrostatic test, Sudden infants death syndrome and Munchausen's syndrome by proxy	3	3	0	1	2	1	1	
FM3.29	Describe and discuss child abuse and battered baby syndrome	3	1	2	1	2	2	0	
Dermatology, Venereology & Leprosy									
DR5.1	Describe the etiology, microbiology, pathogenesis, natural history, clinical features, presentations and complications of scabies	3	2	2	1	2	1	1	
DR5.2	Identify and differentiate scabies from other lesions	3	3	1	1	2	2	0	

Number	COMPETENCY The student should be able to								
DR5.3	Enumerate and describe the pharmacology, administration and adverse reaction of pharmacotherapies for scabies	3	2	0	1	1	1	2	
DR6.1	Describe the etiology, pathogenesis and diagnostic features of pediculosis	3	2	0	0	1	1	1	
DR6.2	Identify and differentiate pediculosis from other skin lesions	3	3	0	1	2	2	1	
DR7.1	Describe the etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of dermatophytes	3	1	0	1	2	1	1	
DR8.1	Describe the etiology, microbiology, pathogenesis, clinical presentations and diagnostic features of common viral infections of the skin	3	2	1	1	2	2	2	
DR17.1	Enumerate and identify the cutaneous findings in vitamin A deficiency	3	2	1	1	2	1	1	
DR17.2	Enumerate and describe the various skin changes in Vitamin B complex deficiency	3	2	1	1	2	1	1	
DR17.3	Enumerate and describe the various changes in Vitamin C deficiency	3	2	1	1	2	1	1	
DR17.4	Enumerate and describe the various changes in Zinc deficiency	3	2	0	1	2	1	1	

Anesthesiology

Number	COMPETENCY The student should be able to								
AS2.1	Enumerate the indications, describe the steps and demonstrate in a simulated environment basic life support in adults children and neonates	3	3	3	2	3	2	1	
Psychiatry									
PS14.1	Enumerate and describe the magnitude and etiology of psychiatric disorders occurring in childhood and adolescence	3	1	2	1	2	1	1	
PS14.2	Enumerate, elicit, describe and document clinical features in patients with psychiatric disorders occurring in childhood and adolescence	3	2	2	1	2	1	1	
PS14.3	Describe the treatment of stress related disorders including behavioural, psychosocial and pharmacologic therapy	3	2	2	1	2	2	1	
PS14.4	Demonstrate family education in a patient with psychiatric disorders occurring in childhood and adolescence in a simulated environment	3	3	3	1	2	1	1	
PS14.5	Enumerate and describe the pharmacologic basis and side effects of drugs used in psychiatric disorders occurring in childhood and adolescence	3	1	2	2	2	2	2	
PS15.1	Describe the aetiology and magnitude of mental retardation	3	1	1	1	2	1	1	
PS15.2	Describe and discuss intelligence quotient and its measurement	3	2	1	1	2	1	1	
PS15.3	Elicit and document a history and clinical examination and choose appropriate investigations in a patient with mental retardation	3	2	0	1	2	1	1	
PS15.4	Describe the psychosocial interventions and treatment used in mental retardation	3	1	2	1	2	2	2	

Number	COMPETENCY The student should be able to								
General Medicine									
IM23.1	Discuss and describe the methods of nutritional assessment in an adult and calculation of caloric requirements during illnesses	3	3	2	1	2	1	1	
IM23.2	Discuss and describe the causes and consequences of protein caloric malnutrition in the hospital	3	1	1	1	2	1	1	
IM23.3	Discuss and describe the aetiology, causes, clinical manifestations, complications, diagnosis and management of common vitamin deficiencies	3	3	2	1	2	2	2	
IM23.4	Enumerate the indications for enteral and parenteral nutrition in critically ill patients	3	2	0	2	2	2	2	
Obstetrics &Gynecology									
OG1.2	Define and discuss perinatal mortality and morbidity including perinatal and neonatal mortality and morbidity audit	3	2	0	1	2	1	2	
OG18.1	Describe and discuss the assessment of maturity of the newborn, diagnosis of birth asphyxia, principles of resuscitation, common problems	3	3	1	2	2	2	2	
OG18.2	Demonstrate the steps of neonatal resuscitation in a simulated environment	3	3	2	2	2	2	2	
OG18.3	Describe and discuss the diagnosis of birth asphyxia	3	2	2	1	2	0	0	
OG18.4	Describe the principles of resuscitation of the newborn and enumerate the common problems encountered	3	3	2	2	2	2	1	

Number	COMPETENCY The student should be able to								
Physical Medicine & Rehabilitation									
PM3.1	Describe and discuss the clinical features, types, evaluation, diagnosis and management of cerebral palsy	3	2	2	2	2	2	2	
PM3.2	Recognize, describe and discuss the spectrum of multiple disability : cognitive, motor, visual and hearing in cerebral palsy	3	2	2	2	2	2	2	
PM3.3	Recognize, describe and discuss the role of special education in children with learning disabilities	3	2	3	1	2	1	1	
PM3.4	Demonstrate spasticity, rigidity and dystonia in children with cerebral palsy	3	3	1	1	2	1	0	
PM3.5	Enumerate the indications and describe the therapies for spasticity including medications, serial casts, nerve blocks, botulinum toxin injections	3	2	2	2	2	2	2	
PM3.6	Enumerate the indications and describe prevention of joint subluxations and contractures by proper positioning, and use of special chairs, and appliances	3	2	2	1	2	1	1	
PM3.7	Enumerate the first aid measures to be used in patients with seizures	3	2	2	1	2	1	1	
	and role of common modalities (moist heat, ultrasound, Short wave diathermy)	3	2	2	1	2	1	1	

