

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P	Core Y/N	Suggested Teaching Learning methods	Suggested Assessment methods	Number required to certify P	Vertical Integration	Horizontal Integration
PEDIATRICS									
Topic: Normal Growth and Development					Number of procedures that require certification: (02)				
PE1.1	Define the terminologies Growth and development and discuss the factors affecting normal growth and development At the end of session students should Objectives a) Define Growth , Define Development b) Enumerate factors affecting normal growth c) Enumerate factors affecting normal growth development d) Identify growth patterns on growth chart , who and Indian e) Assess development at a given age	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE1.2	Discuss and describe the patterns of growth in infants, children and adolescents At the end of session the students should - Objectives a) Describe various patterns of growth in infants, children and adolescents. b) Describe growth velocity at various ages. c) Discuss about taking of Head circumference, Wt, TL & HT, MAC, US/LS ratio. d) Differentiate between age dependent and age independent parameter for growth assessment.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Psychiatry

PE1.3	<p>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. At the end of session, students should be able to know how, who & Indian growth charts are made, and how percentiles are derived.</p> <p>Objectives</p> <p>a) Discuss about deviation from normal growth</p> <p>b) Identify growth deviation on growth chart- how to do it.</p> <p>c) Enumerate various parameters used for growth assessment Head circumference, TL/HT, MAC, Weight VS/LS ratio chest circumference & how to record them.</p> <p>d) Compare given parameter with that on growth chart.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Psychiatry
PE1.4	<p>Perform Anthropometric measurements, document in growth charts and interpret Objectives</p> <p>a) Record weight, height /TL, US/LS, ratio, at given age (infants, children, adolescents)</p> <p>b) Identify deviation from normal by comparing with growth chart (Indian & who)</p> <p>c) Interpret the growth charts (3 Samples)</p>	S	P	Y	Small group discussion	Document in Log book	3		
PE1.5	<p>Define development and discuss the normal developmental mile stones with respect to motor, behaviour, social, adaptive and language</p> <p>Objectives</p> <p>a) Define development</p> <p>b) List the normal milestone in a each action according to age of achievement</p> <p>i) Motor</p> <p>ii) Social</p> <p>iii) Adaptor</p> <p>iv) Hang age</p> <p>v) Behavior</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Psychiatry

PE1.6	Discuss the methods of assessment of development Objectives a) Enumerate methods of developmental assessment b) Discuss all method.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE1.7	Perform Developmental assessment and interpret Objectives a) Do the development assessment of 6 yr old of child. b) Do the DA of 14 yr old child c) Do the DA of 3 yrs. old child Common proteins related of growth	S	P	N	Bedside clinics, Skills Lab	Document in Log book	3		
Topic: Common problems related to Growth					Number of procedures that require certification: (NIL)				
PE2.1	Discuss the etio-pathogenesis, clinical features and management of a child who fails to thrive Objectives a) Describe the etiology of child with failure to thrive b) Describe the pathogenesis of child with failure to thrive c) Discuss the steps in the management of child with FTT	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE2.2	Assessment of a child with failing to thrive including eliciting an appropriate history and examination Objective a) Discuss how history is taken in child with FTT b) Discuss the examination of child with FTT	S	SH	Y	Bedside clinics	Skills Station			
PE2.3	Counselling a parent with failing to thrive child Objectives Counsel a parent with FTT child	A/C	SH	Y	OSPE	Document in Log book		AETCOM	
PE2.4	Discuss the etio-pathogenesis, clinical features and management of a child with short stature Objectives a) Discuss etiopathogenesis of child with short stature. b) Describe clinical features of child with SS c) Management of child with short stature	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE2.5	Assessment of a child with short stature: Elicit history, perform examination, document and present Objectives a) Elicit history of child with short stature b) Perform examination of child with short stature & document c) Present the case	S	SH	Y	Bedside clinics, Skill lab	Skill Assessment			
PE2.6	Enumerate the referral criteria for growth related problems Objectives a) Enumerate referral criteria for growth related problems	K	K	Y	Small group discussion	Written/ Viva voce			
Topic: Common problems related to Development -1 (Developmental delay , Cerebral palsy) Number of competencies:(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 Objectives a) Define developmental delay b) Enumerate causes of developmental delay c) Discuss the causes of developmental delay & intellectual disability	K	K	Y	Lecture, Small group discussion	Written/ Viva voce			
PE3.2	Discuss the approach to a child with developmental delay Objectives Discuss approach to child with developmental delay a) Elicit history in utero, intranatal, postnatal b) Elicit the milestone and the percentage of delay & the to main affected c) Elicit history related to possible cause	K	K	Y	Lecture, Small group discussion	Written/ Viva voce			
PE3.3	Assessment of a child with developmental delay - Elicit document and present history Objectives	S	SH	Y	Bedside clinics, Skills	Skill Assessment			
PE3.4	Counsel a parent of a child with developmental delay Objectives a) Counsel a parent of a child with developmental delay	S	SH	Y	DOAP session	Document in Log Book			
PE3.5	Discuss the role of the child developmental unit in management of developmental delay Objectives Discuss the role of the child development unit in the management of developmental delay Multidisciplinary approach (ENT, Orthopedic, physiotherapist, psychologist)	K	K	N	Lecture, Small group discussion	Written/ Viva voce		Community Medicine	

PE3.6	Discuss the referral criteria for children with developmental delay Objectives a) Enumerate referral criteria's to child with development delay	K	K	Y	Lecture, Small group discussion	Written/ Viva voce				
PE3.7	Visit a Child Developmental Unit and observe its functioning Objectives a) Visit a clinical with child developmental unit & obesity functioning	S	KH	Y	Lecture, Small group discussion	Log book Entry		Community Medicine		
PE3.8	Discuss the etio-pathogenesis, clinical presentation and multi- disciplinary approach in the management of Cerebral palsy Objectives a) Discuss etiopathogenesis of CP b) Describe clinical features of child with CP c) Discuss the multidisiplinary approach in the management of CP d) Describe clinical features of child presenting with LD e) Discuss the approach to make diagnosis in child with LD f) Outline management	K	KH	Y	Lecture, Small group, Bedside clinics	Written/ Viva voce			Physical Medicine & Rehabilitation	
Topic: Common problems related to Development-2 (Scholastic backwardness, Learning Disabilities , Autism , ADHD)							Number of competencies: (06)			
							Number of procedures that require certification: (NIL)			
PE4.1	Discuss the causes and approach to a child with scholastic backwardness Objective a) List causes of scholastics backwardness in children b) Discuss an approach to a child presenting with scholastic backwardness in the form of I) Elicit history II) Perform physical exam III) Establish diagnosis and outline management	K	K	N	Lecture, Small group discussion	Written				

PE4.2	<p>Discuss the etiology, clinical features, diagnosis and management of a child with Learning Disabilities</p> <p>Objectives</p> <p>a) List the causes of child with learning disability</p> <p>b) Describe clinical features of child presenting with LD</p> <p>c) Discuss the approach to make diagnosis in child with LD</p> <p>d) Outline management</p>	K	K	N	Lecture, Small group discussion	Written			
PE4.3	<p>Discuss the etiology, clinical features, diagnosis and management of a child with Attention Deficit Hyperactivity Disorder (ADHD)</p> <p>Objectives</p> <p>a) Enlist causes of child with autistic disorder</p> <p>b) Describe clinical manifestations of child with AD with emphasis of symptom in 3 all domains like social interaction communication & developmentally appropriate behavior, interests or activities (DCM Criteria IV)</p> <p>c) How to arrive at diagnosis of AD with gold standard diagnosis tools astern in diagnostic interview and the astern diagnostic observation schedule(ADOS)</p> <p>d) Enlist the evaluations to make diagnosis and discuss the genetic & metabolic tests required to make diagnosis of AD</p> <p>e) Outline management of children with AD emphasis on medications options for common target symptoms or co existing diagnosis in children with ASD (Astern spectrum disorder)</p>	K	K	N	Lecture, Small group discussion	Written			

PE4.4	Discuss the etiology, clinical features, diagnosis and management of a child with Autism a) Enlist causes of child with autistic disorder b) Describe clinical manifestations of child with AD with emphasis of symptom in 3 all domains like social interaction communication & developmentally appropriate behavior, interests or activities (DCM Criteria IV) c) How to arrive at diagnosis of AD with gold standard diagnosis tools asstern in diagnostic interview and the asstern diagnostic observation schedule(ADOS) d) Enlist the evaluations to make diagnosis and discuss the genetic & metabolic tests required to make diagnosis of AD e) Outline management of children with AD emphasis on medications options for common target symptoms or co existing diagnosis in children with ASD (Astern spectrum disorder)	K	K	N	Lecture, Small group discussion	Written			
PE4.5	Discuss the role of Child Guidance clinic in children with Developmental problems Objectives Describe the each of the session provided in (GC) i) Parents education ii) Psychosocial services iii) Speech, language herring session iv) Screening	K	K	N	Lecture, Small group discussion	Written/ Viva voce		Psychiatry	
PE4.6	Visit to the Child Guidance Clinic Objectives a) Arrange a visit to CCTC b) Describe the interview proforma and services provided to CGE c) Discuss about the personal managing CGC and the types of patients visiting CGC	S	KH	N	Lecture, Small group discussion	Document in Log Book			
Topic: Common problems related to behavior certification: (NIL)		Number of competencies: (11)			Number of procedures that require				

PE5.1	Describe the clinical features, diagnosis and management of thumb sucking Objectives a) Describe clinical features of child with thumb sucking and how to arrive to diagnosis b) Discuss managements with role of reserved procluder c) Behavior management with components role of habit reserved procluder d) Reminders and reinforces e) Noxious alerts	K	K	N	Lecture, Small group discussion	Written			
PE5.2	Describe the clinical features, diagnosis and management of Feeding problems Objectives a) Describe the various feeding problems which occur in children with developmental delay b) Explain the cause of feeding problems in children with DD c) Discuss management of oromotor dyspraxia during feeding d) Discuss management of GER in children with DD e) Discuss importance of adequate nutritional supplementation in children with DD	K	K	N	Lecture, Small group discussion	Written			
PE5.3	Describe the clinical features, diagnosis and management of nail biting Objectives a) Describe clinical features in child presenting with nail biting b) Discuss etiology and the comorbidities occurring with nail biting behavior c) Discuss diagnosis d) Describe management of a child with nail biting behavior with emphasis on psychotherapy, functional assessment analysis and habit reversal techniques, self control interventions and pharmacotherapy.	K	K	N	Lecture, Small group discussion	Written/ Viva voce			

PE5.4	Describe the clinical features, diagnosis and management of Breath Holding spells Objectives a) Define breath holding spells b) Describe the types and enumerate the differences c) Discuss diagnosis and etiology d) Discuss management of pallid spells e) Discuss treatment of cyanotic breath holding spells.	K	K	N	Lecture, Small group discussion	Written/ Viva voce			Psychiatry
PE5.5	Describe the clinical features, diagnosis and management of temper tantrums Objectives a) Describe clinical manifestations of children presenting with temper tantrums and the diagnosis b) Discuss immediate measures to calm the child during temper tantrum c) Discuss the preventive measures to prevent further episodes	K	K	N	Lecture, Small group discussion	Written/ Viva voce			Psychiatry
PE5.6	Describe the clinical features, diagnosis and management of Pica Objectives a) Define PICA b) Discuss the symptoms and diagnosis of child presenting with PICA c) Discuss the DD d) Discuss treatment methods in i) Behavioral therapy ii) Social therapy iii) Medical approach	K	K	N	Lecture, Small group discussion	Written/ Viva voce			
PE5.7	Describe the clinical features, diagnosis and management of Fussy infant Objectives a) Discuss clinical manifestations and diagnosis of fussy infant b) Discuss measures taken to calm a fussy infant c) Discuss preventive measures	K	K	N	Lecture, Small group discussion	Written			Psychiatry

PE5.8	<p>Discuss the etiology, clinical features and management of Enuresis</p> <p>Objectives</p> <p>a) Enumerate causes of enuresis (bed-wetting) in children</p> <p>b) Discuss the difference between primary and secondary enuresis</p> <p>c) Discuss the investigations and diagnosis of primary nocturnal enuresis</p> <p>d) Discuss the management steps and describe the preventive measures for primary nocturnal enuresis</p> <p>e) Discuss the drugs used to treat primary nocturnal enuresis with their failure rates and drawbacks</p>	K	K	N	Lecture, Small group discussion	Written/ Viva voce			
PE5.9	<p>Discuss the etiology, clinical features and management of Encopresis</p> <p>Objectives</p> <p>a) Define encopresis</p> <p>b) Discuss the etiology of encopresis and types of encopresis</p> <p>c) describe clinical features and diagnosis of encopresis</p> <p>d) Discuss treatment of retentive encopresis</p> <p>e) Discuss medications used for impaction</p> <p>f) Discuss treatment used for encopresis with behavioral disturbances</p>	K	K	N	Lecture, Small group discussion	Written/ Viva voce			
PE5.10	<p>Discuss the role of child guidance clinic in children with behavioural problems and the referral criteria</p> <p>Objectives</p> <p>a) Enumerate the types of behavioral problems that are commonly seen in children at child guidance clinic</p> <p>b) Discuss the steps taken in CGC in managing child with behavioral problems</p> <p>c) Discuss in short about team working at CGC and its functioning</p> <p>d) Describe the criteria used to refer children to a CGC</p>	K	K	N	Lecture, Small group discussion	Written/ Viva voce			Psychiatry

PE5.11	Visit to Child Guidance Clinic and observe functioning Objective a) Plan a visit to CGC b) Observe the types of disorders referred to CGC c) Observe the history taking & diagnostic steps at CGC d) Observe the treatment methods used to treatment children with behavioral problems development at CGC	K	KH	N	Lecture, Small group discussion	Document in Log Book			
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 Objectives: a) Define Adolescence & its period b) Discuss Stages of adolescence & SM rating	K	K	Y	Lecture, Small group discussion	Written/ Viva voce			
PE6.2	Describe the physical, physiological and psychological changes during adolescence (Puberty) Objective a) Describe the physical changes that occur in puberty in males & females b) Describe the psychological changes in female during puberty c) Discuss about SMR staging	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Psychiatry
PE6.3	Discuss the general health problems during adolescence Objective a) Enlist the general health problems during adolescence b) Describe each of these problems and their management	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE6.4	Discuss the general health problems during adolescence Objective a) Enlist the general health problems during adolescence b) Describe each of these problems and their management	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE6.5	<p>Explain the Adolescent Nutrition and common nutritional problems Objective</p> <p>a) Discuss about the nutritional in requirement in adolescence</p> <p>b) Enlist common nutritional problems in adolescences</p> <p>c) Describe each problems and its management</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Psychiatry
PE6.6	<p>Discuss the common Adolescent eating disorders (Anorexia Nervosa, Bulimia) Objective</p> <p>a) Define Anorexia Nervous & Bulimia</p> <p>b) Describe the DSN diagnostic criteria's for anorexia nervous</p> <p>c) Describe the DSM diagnostic criteria's for bulimia nervous</p> <p>d) Describe in brief pathogenesis of eating disorder</p> <p>e) Describe clinical features of dating disorders</p> <p>f) Discuss the complications that occur in eating disorders</p> <p>g) Discuss the principles gene ling primary treatment</p> <p>h) Discuss the role of nutrition's & physical activity in</p> <p>i) Discuss indications for independent medical hospitalization of a patients with AN</p> <p>j) Discuss the referral criteria's for eating disorders</p>	K	KH	N	Lecture, Small group discussion	Written/ Viva voce			Psychiatry

PE6.7	<p>Describe the common mental health problems during adolescence</p> <p>Objectives</p> <p>a) Enlist the common mental health problems that occur in adolescent</p> <p>b) Discuss about HEADS assessment</p> <p>c) Discuss about violent behavior & suicidal tendencies in adolescences</p> <p>d) Discuss about common gender identity disorders and sexual orientation deviations scan in adolescents</p> <p>e) Discuss about etiology, clinical manifestations , occurring in diagnosis & treatment of substances abuse in adolescences</p> <p>f) Enumerate commonly used substances adolescents for abuse & them management of each</p> <p>g) Discuss about importance of sex education in adolescents and ill effects of teenage pregnancy & methods of carter captures</p> <p>h) Discuss about STDS occurring in adolescents</p> <p>i) Discuss about pathogenesis ,clinical manifestations diagnosis treatment of chronic fateine syndrome in adolescents</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			Psychiatry
PE6.8	<p>Respecting patient privacy and maintaining confidentiality while dealing with adolescence</p> <p>Objective</p> <p>a) Discuss why privacy and confidentiality are important while interviewing adolescents</p> <p>b) Discuss about how to keep privacy & confidentiality while delay with adolescences</p>	A	SH	Y	Bedside clinics	Document in log book			AETCOM
PE6.9	<p>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</p> <p>Objective</p> <p>a) Discuss about history taking in adolescents and the principles used</p> <p>b) Discuss about SMR rating in adolescents and its importance</p> <p>c) Enumerate & describe common growth problems in adolescents</p> <p>d) Discuss about tyroid examination, breast examination in adolescents</p> <p>e) Describe about the HEADSS screening in adolescents</p>	S	SH	Y	Bedside clinics	Skills station			

PE6.10	Discuss the objectives and functions of AFHS (Adolescent Friendly Health Services) and the referral criteria Objectives a) Discuss the objectives of AFHS initiated by WHO b) Describe functions of AFHS c) Discuss about the referral criteria for AFHS	K	K	N	Lecture, Small group discussion	Written/ Viva voce			
PE6.11	Visit to the Adolescent Clinic Objectives a) Pay a visit to adolescent's clinic b) Observe the functioning of adolescent clinic c) Mention the types of complaints by adolescents notice during visit to adolescent's clinic	S	KH	Y	DOAP session	Document in Log Book			
PE6.12	Enumerate the importance of obesity and other NCD in adolescents Objectives a) Enumerate the common non communicable diseases seen in adolescents b) Describe about Etiopathogenesis, complications of obesity in adolescents c) Discuss the importance of mental health and its association with non communicable diseases with effect of body image on mental health	K	K	Y	Lecture, Small group discussion	Written/ Viva voce			
PE6.13	Enumerate the prevalence and the importance of recog	K	K	N	Lecture, Small group	Written/ Viva voce			Psychiatry
Topic: To promote and support optimal Breast feeding for Infants certification : (01)									
Number of competencies: (11)									
Number of procedures that require									
PE7.1	Awareness on the cultural beliefs and practices of breast feeding Objectives a) Enumerate and discuss the common cultural beliefs and practices that are useful for brast feeding establishment. b) Enumerate and discuss about the common harmful cultural beliefs and practices for establishment of breast feeding.	K	K	N	Lecture, Small group discussion	Viva			Obstetrics & Gynaecology
PE7.2	Explain the physiology of lactation Objectives a) Discuss about stages of lactation b) Describe the importance or prolactin and oxytocin reflex in initiation of Brest feeding c) Describe features of good positioning d) Describe features of good attachment e) Discuss the problems faced during initiation of lactation.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology	

PE7.3	Describe the composition and types of breast milk and discuss the differences between cow's milk and Human milk Objectives By the end of session the students should be able to: a) Discuss the composition & types of breast milk accurately . b) Differentiate between Cow's milk & human milk precisely	K	KH	Y	Lecture, debate	Written/ Viva voce		Physiology	
PE7.4	Discuss the advantages of breast milk Objectives a) Enumerate / Discuss the advantage of breast milk in detail.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE7.5	Observe the correct technique of breast feeding and distinguish right from wrong techniques Objectives a) Elicit the Technique of breast feeding correctly (OSCE) (3 Times) . b) List out the principles of BFHI in short.	S	P	Y	Bedside clinics, Skills lab	Skill Assessment	3		
PE7.6	Enumerate the baby friendly hospital initiatives Objectives: a) Elicit the Technique of breast feeding correctly (OSCE) (3 Times) b) List out the principles of BFHI in short.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE7.7	Perform breast examination and identify common problems during lactation such as retracted nipples, cracked nipples, breast engorgement, breast abscess Objectives a) Perform Breast examination under supervision. b) Identify common Problems of lactation	S	SH	Y	Bedside clinics, Skill Lab	Skill Assessment			Obstetrics & Gynaecology , AETCOM
PE7.8	Educate mothers on ante natal breast care and prepare mothers for lactation Objectives a) Counsel mother regarding antenatal care & prepare them for BF without hesitation.	A/C	SH	Y	DOAP session	Document in Log Book			AETCOM
PE7.9	Educate and counsel mothers for best practices in Breast feeding Objectives: a) Counsel mother regarding Best ways of Breast Feeding a baby	A/C	SH	Y	DOAP session	Document in Log Book			Obstetrics & Gynaecology , AETCOM
PE7.10	Respects patient privacy Objectives: a) Learn to counsel mothers regarding maintaining confidentiality.	A	SH	Y	DOAP session	Document in Log Book			AETCOM

PE7.11	Participate in Breast Feeding Week Celebration Objectives: a) Demonstrate Breast Feeding in a mannekin to the participating mothers independently during BF week celebration	A	SH	Y	DOAP session	Document in Log Book			
Topic: Complementary Feeding certification: (NIL)		Number of competencies : (05)			Number of procedures that require				
PE8.1	Define the term Complementary Feeding Objectives: a) Define Complementary Feeding. (CF)	K	K	Y	Lecture, Small group	Written/ Viva voce		Community Medicine	
PE8.2	Discuss the principles, the initiation, attributes, frequency, techniques and hygiene related to Complementary Feeding including IYCF Objectives: a) Discuss the principles of CF b) Elicit Techniques of CF accurately	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine	
PE8.3	Enumerate the common complimentary foods Objectives: a) List the common Complimentary Food.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine	
PE8.4	Elicit history on the Complementary Feeding habits Objectives:a) Present H/O CF habits explicitly.	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment		Community Medicine	
PE8.5	Counsel and educate mothers on the best practices in Complimentary Feeding Objectives: a) Counsel the mother regarding best practices of CF & their importance in detail.	A/C	SH	Y	DOAP session	Document in Log Book		Community Medicine	
Topic: Normal nutrition, assessment and monitoring certification : (NIL)		Numbcompetencies : (07)			Number of procedures that require				
PE9.1	Describe the age related nutritional needs of infants, children and adolescents including micronutrients and vitamins Objectives: a) Discuss Nutritional Needs in infancy childhood & adolescence in detail. b) Discuss the role of micronutrients & vitamins in these period explicitly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine, Biochemistry	
PE9.2	Describe the tools and methods for assessment and classification of nutritional status of infants, children and adolescents Objectives: a) Enumerate various methods of classification nutritional infancy childhood & adolescence correctly b) List the tools of assessment precisely	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine	

PE10.2	Outline the clinical approach to a child with SAM and MAM Objectives: a) Discuss the clinical approach to a child with SAM + MAM Thoroughly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Biochemistry	
PE10.3	Assessment of a patient with SAM and MAM, diagnosis, classification and planning management including hospital and community based intervention, rehabilitation and prevention Objectives: a) Discuss the H/O examination of a patient with SAM+MAM. b) Diagnose and classify children with SAM + MAM c) Record the management plan along with rehabilitation and prevention.	S	SH	Y	Bedside clinics, Skills lab	Skill station		Physiology, Biochemistry	
PE10.4	Identify children with under nutrition as per IMNCI criteria and plan referral Objectives: a) Identify children with PEM b) Record & Refer children with PEM as/ IMNCI ad refer if untreatable	S	SH	Y	DOAP session	Document in log book		Community Medicine	
PE10.5	Counsel parents of children with SAM and MAM Objectives: a) counsel Parents of children with ref SAM+ MAM feeding checking their understanding	S	SH	Y	Bedside clinic, Skills Station	Document in Log book		AETCOM	
PE10.6	Enumerate the role of locally prepared therapeutic diets and ready to use therapeutic diets Objectives: a) Enumerate the role of RUTF & locally available therapeutic diets.	K	K	N	Lecture, Small group discussion	Written/ Viva voce			

Topic: Obesity in children certification: (01)

Number of competencies: (06)

Number of procedures that require

PE11.1	Describe the common etiology, clinical features and management of obesity in children Objectives:a) Discuss the common etiology & list the C/F in detail. b) Describe the management of obesity in children accurately.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Biochemistry, Pathology	
PE11.2	Discuss the risk approach for obesity and discuss the prevention strategies Objectives: a) Discuss the risk approach for obesity in children b) Describe the prevention strategies correctly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Pathology	

PE11.3	Assessment of a child with obesity with regard to eliciting history including physical activity, charting and dietary recall Objectives: a) Present a child with obesity with regard to H/O including the mention of physical activity b) Record the dietary chart clearly	S	SH	Y	Bedside clinics, Standardized patients	Document in log book			
PE11.4	Examination including calculation of BMI, measurement of waist hip ratio, identifying external markers like acanthosis, striae, pseudogynaecomastia etc Objectives: a) Record / document BMI, various anthropometric measurements including waist hip ratio correctly b) Demonstrate different external markers independently	S	SH	Y	Bedside clinics, Standardized patients, Videos	Skills Station			
PE11.5	Calculate BMI, document in BMI chart and interpret Objectives:a) Record BMI in chart & interpret independently	S	P	Y	Bedside clinics, Small group discussion	Document in log book	3		
PE11.6	Discuss criteria for referral Elicit the referral criteria for an obese child Objectives:a)	K	K	Y	Small group discussion	Viva voce			

Topic: Micronutrients in Health and disease-1 (Vitamins ADEK, B Complex and C)

Number of competencies: (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 Objectives: a) Describe the RDA & list the dietary sources of vita A. b) Describe the role of RDA & vita A in health & disease .	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE12.2	Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin A Objectives: a) Describe the etiology, C/F, diagnosis & management of vita A deficiency in detail. b) Outline the diagnosis & management of Excess of vita A in children accurately.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE12.3	Identify the clinical features of dietary deficiency / excess of Vitamin A Objectives: a) Identity the clinical features of dietary deficiency / excess of vitamin A.	S	SH	Y	Bedside clinics, Small group discussion	Document in log book		Biochemistry	

PE12.4	Diagnose patients with Vitamin A deficiency, classify and plan management Objectives: a) Present cases with vita A deficiency diagnosis . b) Document their classification & management plan.	S	SH	N	Bedside clinics, Skill Station	Document in log book		Biochemistry	
PE12.5	Discuss the Vitamin A prophylaxis program and their recommendations Objectives: a) Describe the vita A prophylaxis program and their recommendations.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE12.6	Discuss the RDA, dietary sources of Vitamin D and their role in health and disease Objectives: a) Describe the RDA & enlist the dietary sources of vitamin D. b) Elicit the role vita D in health & disease.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE12.7	Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin D (Rickets and Hypervitaminosis D) Objectives: a) Describe the causes, clinical features, diagnosis and management of deficiency /excess of vitamin D accurately Demonstrates Accurately Signs Of All Vitamin B Complex Deficiency	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry, Physiology, Pathology	
PE12.8	Identify the clinical features of dietary deficiency of Vitamin D Objectives: a) Describe the causes, clinical features, diagnosis and management of deficiency /excess of vitamin D accurately	S	SH	Y	Bedside clinics, Skills lab	Document in log book		Biochemistry, Physiology, Pathology	
PE12.9	Assess patients with Vitamin D deficiency, diagnose, classify and plan management Objectives: a) Present cases with vitamin D deficiency explicitly. b) Classify vit D deficiency & record management plan accurately in a chart.	S	SH	Y	Bedside clinics	Document in log book		Biochemistry, Physiology, Pathology	
PE12.10	Discuss the role of screening for Vitamin D deficiency Objectives: a) Elicit the role of screening for vita D deficiency.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce			
PE12.11	Discuss the RDA, dietary sources of Vitamin E and their role in health and disease Objectives: a) Describe the RDA & list dietary sources of vit E. b) Discuss the role of vita E in health & disease	K	K	N	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	

PE12.12	Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin E Objectives: a) Describe the causes, clinical features, diagnosis of vit. E in detail. b) Outline management of deficiency of vita E briefly.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE12.13	Discuss the RDA, dietary sources of Vitamin K and their role in health and disease Objectives: a) Describe the RDA & list the dietary sources of vit K.. b) Discuss the role of vita K in health & disease.	K	K	N	Lecture, Small group discussion	Written/ Viva voce		Biochemistry, Physiology, Pathology	
PE12.14	Describe the causes, clinical features, diagnosis management and prevention of deficiency of Vitamin K Objectives: a) Describe the causes, clinical features diagnosis & management of vit K deficiency briefly. b) Outline prevention of deficiency of vita k correctly.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Biochemistry, Physiology, Pathology	
PE12.15	Discuss the RDA, dietary sources of Vitamin B and their role in health and disease Objectives: a) Describe the RDA & list the dietary sources of vit B. b) Discuss the role of vita B in health & disease.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE12.16	Describe the causes, clinical features, diagnosis and management of deficiency of B complex Vitamins Objectives: a) Describe the C/F, diagnosis of deficiency of vitamin B complex in the body thoroughly. b) Discuss the management of deficiency of B complex vitamins in brief.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE12.17	Identify the clinical features of Vitamin B complex deficiency Objectives: At the end of the session the student must be able to Demonstrate Accurately Signs Of All Vitamin B Complex Deficiency	S	SH	Y	Bedside clinics, Skills lab	Document in log book		Biochemistry	
PE12.18	Diagnose patients with Vitamin B complex deficiency and plan management Objectives: Identifies signs of all Vitamin B complex deficiencies and presents accurately PLAN OF MANAGEMENT	S	SH	Y	Bedside clinics, Skills lab	Document in log book		Biochemistry	

PE12.19	Discuss the RDA , dietary sources of Vitamin C and their role in Health and disease Objectives: Discuss briefly role of Vit C in health and disease Describe RDA and dietary sources of vitamin C in short.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE12.20	Describe the causes, clinical features, diagnosis and management of deficiency of Vitamin C (scurvy) Objectives: At the end of the session the student must able to Enumerate causes and discuss briefly clinical features, diagnosis and management of deficiencies of VITAMIN C (SCURVY)	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE12.21	Identify the clinical features of Vitamin C deficiency Objectives: At the end of the session the student must able to Records and Interprets VITAMIN –C deficiency related findings accurately	S	SH	N	Bedside clinics, Skill lab	Document in log book		Biochemistry	

Topic: Micronutrients in Health and disease -2: Iron, Iodine, Calcium, Magnesium

Number of competencies: (14)

Number of procedures that require certification: (NIL)

PE13.1	Discuss the RDA, dietary sources of Iron and their role in health and disease Objective: At the end of the session the student must able to Discuss RDA and enumerate Dietary sources of Iron and briefly describe their role both in health and in disease.	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Biochemistry	
PE13.2	Describe the causes, diagnosis and management of Fe deficiency Objective: At the end of the session the student must able to Enumerate causes of Iron deficiency Discuss briefly the diagnosis of Iron deficiency state and management thereof.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Biochemistry	
PE13.3	Identify the clinical features of dietary deficiency of Iron and make a diagnosis Objective: At the end of the session the student must able to Identify clinical features associated with dietary Iron deficiency and demonstrate ability to make a diagnosis accurately	S	SH	Y	Bedside clinics, Skills lab	Document in log book		Pathology, Biochemistry	

PE13.4	Interpret hemogram and Iron Panel Objective: At the end of the session the student must able to Knows normal hemogram and Iron panel Describes and interprets hemogram and iron panel accurately.	S	SH	Y	Bedside clinic, Small group discussion	Skill Assessment		Pathology, Biochemistry	
PE13.5	Propose a management plan for Fe deficiency anaemia Objective: At the end of the session the student must able to Presents a management plan of Iron deficiency Anemia accurately	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment		Pathology, Pharmacology	
PE13.6	Discuss the National anaemia control program and its recommendations Objective: At the end of the session the student must able to Describe briefly National Anaemia control programme Discuss Recommendations related to this national programme	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology, Community Medicine	
PE13.7	Discuss the RDA , dietary sources of Iodine and their role in Health and disease Objective: At the end of the session the student must able to Describe briefly RDA and dietary sources of Iodine	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE13.8	Describe the causes, diagnosis and management of deficiency of Iodine Objective: At the end of the session the student must able to Enumerate the causes and describe briefly Diagnosis and management of Iodine deficiency	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE13.9	Identify the clinical features of Iodine deficiency disorders Objective: Knows and identifies clinical features of IODINE DEFICIENCY DISORDER accurately.	S	SH	N	Lecture, Bedside clinic	Written/ Viva voce		Biochemistry	
PE13.10	Discuss the National Goiter Control program and their recommendations Objective: At the end of the session the student must able to Describe the National Goiter Control Programme and Its recommendations briefly	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry, Community Medicine	
PE13.11	Discuss the RDA, dietary sources of Calcium and their role in health and disease Objective: At the end of the session the student must able to Enumerate dietary sources of Calcium and Briefly Describe RDA and Role of CALCIUM in Health and DISEASE	K	K	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	

PE13.12	Describe the causes, clinical features, diagnosis and management of Ca Deficiency Objective: At the end of the session the student must be able to Describe briefly the causes ,clinical features ,diagnosis and management of Ca Deficiency	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE13.13	Discuss the RDA, dietary sources of Magnesium and their role in health and disease Objective:At the end of the session the student must be able to Describe briefly the RDA, dietary sources of Magnesium and their role in health and disease	K	K	N	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
PE13.14	Describe the causes, clinical features, diagnosis and management of Magnesium Deficiency Objective:At the end of the session the student must be able to Enumerate causes and describes briefly clinical features,diagnosis and management of Magnesium Deficiency	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Biochemistry	
Topic: Toxic elements and free radicals and oxygen toxicity certification (NIL)									
				Number of competencies: (05)			Number of procedures that require		
PE14.1	Discuss the risk factors, clinical features, diagnosis and management of Lead Poisoning Objective: At the end of the session the student must be able to Describe briefly risk factors,clinical features, diagnosis and management of Lead poisoning	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
PE14.2	Discuss the risk factors, clinical features, diagnosis and management of Kerosene ingestion Objective: At the end of the session the student must be able to Describe briefly risk factors, clinical features, diagnosis and management of KEROSENE poisoning	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		ENT	
PE14.3	Discuss the risk factors, clinical features, diagnosis and management of Organophosphorous poisoning Objective: At the end of the session the student must be able to Describe briefly risk factors, clinical features, diagnosis and management of Organophosphorus poisoning	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	General Medicine

PE14.4	Discuss the risk factors, clinical features, diagnosis and management of paracetamol poisoning Objective: At the end of the session the student must be able to Enumerate risk factors and Describe briefly clinical features, diagnosis and management of PARACETAMOL poisoning	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pharmacology	
PE14.5	Discuss the risk factors, clinical features, diagnosis and management of Oxygen toxicity Objective: At the end of the session the student must be able to Enumerate risk factors and Describe briefly clinical features, diagnosis and management of OXYGEN TOXICITY	K	KH	N	Lecture, Small group discussion	Written/ Viva voce			
Topic: Fluid and electrolyte balance									
certification:(NIL)			Number of competencies:(07)				Number of procedures that require		
PE15.1	Discuss the fluid and electrolyte requirement in health and disease Objective: At the end of the session the student must be able to Describe briefly fluid and electrolyte requirement in health and disease	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE15.2	Discuss the clinical features and complications of fluid and electrolyte imbalance and outline the management Objective: At the end of the session the student must be able to Describe briefly the clinical features and complications	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE15.3	Calculate the fluid and electrolyte requirement in health Objective: At the end of the session the student must be able to Knows fluid and electrolyte requirement in health Demonstrate the calculations for the requirements as above accurately	S	SH	Y	Bedside clinics, Small group discussion	Skill Assessment			
PE15.4	Interpret electrolyte report Objective: At the end of the session the student must be able to Knows electrolyte levels and interprets the report of electrolytes accurately	S	SH	Y	Bedside clinics, Small group discussion	Skill Assessment			
PE15.5	Calculate fluid and electrolyte imbalance Objective: At the end of the session the student must be able to Knows to identify accurately fluid and electrolytes imbalance Demonstrates skill to calculate the fluid and electrolyte imbalance precisely	S	SH	Y	Bedside clinics, Small group discussion	Skill Assessment			

PE15.6	Demonstrate the steps of inserting an IV cannula in a model Objective: At the end of the session the student must be able to Demonstrate the steps of insertion of an iv cannula accurately	S	SH	Y	Skills Lab	mannequin			
PE15.7	Demonstrate the steps of inserting an interosseous line in a mannequin Objective: At the end of the session the student must be able to Knows the size, site and requirement of the interosseous line and Demonstrates the steps of inserting an interosseous line in a mannequin	S	SH	Y	Skills Lab	mannequin			

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 Objective: At the end of the session the student must be able to Describe briefly the components of Integrated Management of Neonatal and Childhood Illnesses (IMNCI) guidelines and method of Risk stratification	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE16.2	Assess children <2 months using IMNCI Guidelines Objective: At the end of the session the student must be able to Demonstrate accurately assessment of children <2months using IMNCI guidelines	S	SH	Y	DOAP session	Document in log Book			
PE16.3	Assess children >2 to 5 years using IMNCI guidelines and Stratify Risk Objective: At the end of the session the student must be able to Demonstrate assessment of children >2 to 5 years using IMNCI guidelines accurately	S	SH	Y	DOAP session	Document in log Book			

Topic: The National Health programs, NHM **Number of competencies:(02)** **Number of procedures that require certification: (NIL)**

PE18.4	Provide intra-natal care and conduct a normal delivery in a simulated environment Objective: At the end of the session the student must be able to Demonstrates intra-natal care and conduct a normal delivery in a simulated environment accurately	S	SH	Y	DOAP session, Skills lab	Document in Log Book		Community Medicine	Obstetrics & Gynaecology	
PE18.5	Provide intra-natal care and observe the conduct of a normal delivery Objective: At the end of the session the student must be able to Demonstrates ability to provide intranatal care and observation of a normal delivery accurately	S	SH	Y	DOAP session	Document in Log Book			Obstetrics & Gynaecology	
PE18.6	Perform Postnatal assessment of newborn and mother, provide advice on breast feeding, weaning and on family planning Objective: At the end of the session the student must be able to Demonstrates Postnatal assessment of newborn and mother, provide advice on breast feeding, weaning and on family planning accurately	S	SH	Y	Bed side clinics, Skill Lab	Skill Assessment		Community Medicine	Obstetrics & Gynaecology	
PE18.7	Educate and counsel caregivers of children Objective: At the end of the session the student must be able to Educate and counsel the caregivers and verify or check their understanding	A	SH	Y	Postnatal ward, standardized patient	Skill Assessment		AETCOM		
PE18.8	Observe the implementation of the program by visiting the Rural Health Centre Objective: At the end of the session the student must be able to Observe and record the implementation of the programme in rural health center	S	KH	Y	Bed side clinics, Skill Lab	Document in log book		Community Medicine	Obstetrics & Gynaecology	
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 Objective: At the end of the session the student must be able to Describe briefly the components of the Universal Immunization Program and the National Immunization Program	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine, Microbiology, Biochemistry		

PE19.2	Explain the epidemiology of Vaccine preventable diseases Objective: At the end of the session the student must be able to Discuss the epidemiology of Vaccine preventable diseases briefly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine, Microbiology, Biochemistry	
PE19.3	Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and contraindications Objective: At the end of the session the student must be able to Describe various vaccine and classify the vaccines strains used discuss the dose, route , schedule, risk, benefits and side effects indications and contraindications	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine, Microbiology, Biochemistry	
PE19.4	Define cold chain and discuss the methods of safe storage and handling of vaccines Objective: At the end of the session the student must be able to Describe cold chain and the methods of safe storage and handling of vaccines briefly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine, Microbiology, Biochemistry	
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 Objective: At the end of the session the student must be able to Describe briefly immunization in special situations – HIV positive children, immunodeficiency, pre-term, organ transplants, those who received blood and blood products, splenectomised children, adolescents, travellers	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine, Microbiology, Biochemistry	
PE19.6	Assess patient for fitness for immunization and prescribe an age appropriate immunization schedule Objective: At the end of the session the student must be able to Record the assessment of the patient for fitness for immunization and prescribe an age appropriate immunization schedule accurately	S	P	Y	Out Patient clinics Skills lab	Skill Assessment	5		

PE19.7	Educate and counsel a patient for immunization Objectives 1. Demonstrate the importance of immunization to the parents accurately 2. Counsel the parents about the various vaccines need, safety and efficacy accurately	A/C	SH	Y	DOAP session	Document in Log Book			
PE19.8	Demonstrate willingness to participate in the National and sub national immunisation days Objectives 1. Inform the parents about national and sub national immunization days briefly 2. Counsel the parents about participating in these days	A	SH	Y	Lecture, Small group discussion	Document in Log Book		Community Medicine	
PE19.9	Describe the components of safe vaccine practice – Patient education/ counselling; adverse events following immunization, safe injection practices, documentation and Medico-legal implications Objectives 1. Describe the common side effects of vaccines 2. Describe the dangerous side effects to the parents 3. Report the adverse events following immunization accurately 4. Discuss the steps of reporting AEFI briefly 5. Discuss the medicolegal implications associated with vaccine use briefly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			AETCOM
PE19.10	Observe the handling and storing of vaccines Objectives 1. Enumerate the facilities needed for storage and handling of vaccines accurately 2. Describe the use and importance of VVM accurately 3. Describe the precautions of opening and use of vaccine vials accurately 4. Demonstrate how to store the vaccines and transport them correctly	S	SH	Y	DOAP session	Written/ Viva voce			

PE19.11	Document Immunization in an immunization record Objectives 1. List the items to be recorded in immunization register accurately 2. Document the record of vaccination in register accurately 3. record the vaccination details in patients' card accurately	S	SH	Y	Out Patient clinics, Skills lab	Skill assessment			
PE19.12	Observe the administration of UIP vaccines Objectives 1. enumerate various routes of vaccination for different vaccines 2. describe vaccine administration through different routes accurately 3. Describe the steps involved in vaccine administration in all routes accurately	S	SH	Y	DOAP session	Document in Log Book		Community Medicine	
PE19.13	Demonstrate the correct administration of different vaccines in a mannequin Objectives 1. Demonstrate the various immunization techniques on a mannequin precisely	S	SH	Y	DOAP session	Document in Log Book			
PE19.14	Practice Infection control measures and appropriate handling of the sharps Objectives • describe the infection control measures while carrying out vaccination accurately • discuss the biomedical waste management of various items involved in vaccination accurately • demonstrate the handling of sharps used in vaccination accurately	S	SH	Y	DOAP session	Document in Log Book			
PE19.15	Explain the term implied consent in Immunization services Objectives • define the term implied consent in immunization services	K	K	Y	Small group discussion	Written/ Viva voce			

PE19.16	Enumerate available newer vaccines and their indications including pentavalent pneumococcal, rotavirus, JE, typhoid IPV & HPV Objectives <ul style="list-style-type: none"> • enumerate newer vaccines available for human use • describe the indications of use of these newer vaccines briefly. 	K	K	N	Lecture, Small group discussion	Written/ Viva voce			
Topic: Care of the Normal New born, and High risk New born		Number of competencies: (20)			Number of procedures that require certification: (NIL)				
PE20.1	Define the common neonatal nomenclatures including the classification and describe the characteristics of a Normal Term Neonate and High Risk Neonates Objectives <ul style="list-style-type: none"> • define "neonate" • classify preterm neonates as extreme, early and late preterm babies • define a normal healthy newborn • classify newborns on basis of birth weight accurately • define IUGR • Define small for gestation age, large for gestation age accurately 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.2	Explain the care of a normal neonate Objectives <ul style="list-style-type: none"> • Discuss the various elements of care of a normal neonate briefly • Describe the various key issues regarding health of normal newborn like feeding, vaccination, thermal control and infection control briefly 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.3	Perform Neonatal resuscitation in a manikin Objectives <ul style="list-style-type: none"> • Describe the NRP algorithm • Demonstrate the NRP algorithm on a manikin on a hypothetical situations accurately • Describe the technique of bag and mask ventilation, intubation on a manikin accurately 	S	SH	Y	DOAP session	Log book entry of Performance			

PE20.4	<p>Assessment of a normal neonate Objectives</p> <ul style="list-style-type: none"> • Describe the features of a normal neonate on basis of physical and neurological criteria • Demonstrate how to assess body temperature accurately • Describe the Kramer scale and demonstrate the application of same in jaundice assessment accurately • Describe normal anthropometry of a term neonate • Enumerate various neonatal reflexes and demonstrate some of them e.g. MORO'S reflex accurately 	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment			
PE20.5	<p>Counsel / educate mothers on the care of neonates Objectives</p> <ul style="list-style-type: none"> • Know important areas of neonatal care • Counsels mothers about breastfeeding, hygiene, temperature care and vaccination adequately • Demonstrates the understanding of proper attachment at breast, expression of breast milk and other issues related to breast feeding accurately 	A/C	SH	Y	DOAP session	Log book documentation			
PE20.6	<p>Explain the follow up care for neonates including Breast Feeding, Temperature maintenance, immunization, importance of growth monitoring and red flags Objectives</p> <ul style="list-style-type: none"> • Knows the basics of vaccination, breast feeding, anthropometry, temperature control • Knows the various red flags of all the above issues in follow up care as the baby grows accurately • Identifies the lags, gaps and deficiencies in these issues and interprets them accurately 	S	SH	Y	DOAP session	Log book entry			Obstetrics & Gynaecology

PE20.7	<p>Discuss the etiology, clinical features and management of Birth asphyxia</p> <p>Objectives</p> <ul style="list-style-type: none"> • Define birth asphyxia accurately • Enumerate causes of birth asphyxia • Discuss pathophysiology of hypoxic ischemic encephalopathy (HIE) • Describe clinical features and staging of HIE briefly • Discuss the management of birth asphyxia in neonates 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.8	<p>Discuss the etiology, clinical features and management of respiratory distress in New born including meconium aspiration and transient tachypnoea of newborn</p> <p>Objectives</p> <ul style="list-style-type: none"> • define respiratory distress in newborn accurately • Enumerate the causes of RD in newborns • Classify the severity of respiratory distress • Describe the entities like HMD, MAS, TTNB briefly • Discuss the management of various respiratory problems in neonates briefly 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.9	<p>Discuss the etiology, clinical features and management of Birth injuries</p> <p>Objectives</p> <ul style="list-style-type: none"> • Enumerate various birth injuries during delivery • Discuss the clinical features of various types of birth injuries briefly • Describe the outcome of the birth injuries along with the management briefly 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.10	<p>Discuss the etiology, clinical features and management of Hemorrhagic disease of New born</p> <p>Objectives</p> <ul style="list-style-type: none"> • Define HDN • Differentiate various categories of HDN accurately • Discuss management of classical HDN in detail 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE20.11	<p>Discuss the clinical characteristics, complications and management of Low birth weight (preterm and Small for gestation) Objectives</p> <ul style="list-style-type: none"> • Define low birth weight precisely • Describe clinical features of prematurity accurately • Describe in brief various complications of prematurity • Discuss management of low birth weight babies briefly 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.12	<p>Discuss the temperature regulation in neonates, clinical features and management of Neonatal Hypothermia Objectives</p> <ul style="list-style-type: none"> • Define normal temperature range of newborn precisely • Define and classify various grades of hypothermia accurately • Discuss clinical features and management of neonatal hypothermia in detail • Describe the steps to be taken for prevention of hypothermia in newborn accurately 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.13	<p>Discuss the temperature regulation in neonates, clinical features and management of Neonatal Hypoglycemia Objectives</p> <ul style="list-style-type: none"> • Define hypoglycemia in newborn precisely • Discuss clinical features and management of neonatal hypoglycemia in detail • Describe the steps to be taken for prevention of hypoglycemia in newborn accurately 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.14	<p>Discuss the etiology, clinical features and management of Neonatal hypocalcemia Objectives</p> <ul style="list-style-type: none"> • Define hypocalcemia in newborn precisely • Discuss clinical features and management of neonatal hypocalcemia in detail • Describe the precautions for prevention of hypocalcemia in newborn accurately 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE20.15	<p>Discuss the etiology, clinical features and management of Neonatal seizures</p> <p>Objectives</p> <ul style="list-style-type: none"> • Enumerate important causes of neonatal seizures • Describe briefly types of neonatal seizures • Discuss management of neonatal seizures briefly 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.16	<p>Discuss the etiology, clinical features and management of Neonatal Sepsis</p> <p>Objectives</p> <ul style="list-style-type: none"> • Define neonatal sepsis • Differentiate early onset and late onset sepsis • Describe etiology, clinical manifestations in detail • Discuss the management of neonatal sepsis briefly 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.17	<p>Discuss the etiology, clinical features and management of Perinatal infections</p> <p>Objectives</p> <ul style="list-style-type: none"> • Enumerate perinatal infections • Describe TORCH group of infections briefly • Describe briefly perinatal HBV , HIV transmission prevention and management 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE20.18	<p>Identify and stratify risk in a sick neonate using IMNCI guidelines</p> <p>Objectives</p> <ul style="list-style-type: none"> • Describe various risk strata for newborns as per IMNCI guidelines • Interpret the risk category of newborns accurately (as per symptoms) on basis of IMNCI 	S	SH	Y	DOAP session	Document in Log Book			
PE20.19	<p>Discuss the etiology, clinical features and management of Neonatal hyperbilirubinemia</p> <p>Objectives</p> <ul style="list-style-type: none"> • Define hyperbilirubinemia in newborn precisely • Discuss pathophysiology, clinical features and management of neonatal hyperbilirubinemia in detail • Describe the precautions for prevention of hyperbilirubinemia in newborn accurately 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

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 Objectives • Describe 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 briefly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
Topic: Genito-Urinary system									
certification : (NIL)			Number of competencies: (17)				Number of procedures that require		
PE21.1	Enumerate the etio-pathogenesis, clinical features, complications and management of Urinary Tract infection in children Objectives • Define UTI in children accurately • Describe etio-pathogenesis, clinical features, complications and management of Urinary Tract infection briefly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	
PE21.2	Enumerate the etio-pathogenesis, clinical features, complications and management of acute post-streptococcal Glomerular Nephritis in children Objectives • Define PSGN . • Describe etio-pathogenesis, clinical features, complications and management of PSGN briefly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
PE21.3	Discuss the approach and referral criteria to a child with Proteinuria Objectives • Define significant proteinuria in children . • Describe etio-pathogenesis, clinical features of proteinuria in children briefly • Define referral criteria for children with proteinuria accurately • Describe common tests for proteinuria briefly • Describe algorithm for diagnosis of proteinuria accurately	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	

PE21.4	<p>Discuss the approach and referral criteria to a child with Hematuria</p> <p style="text-align: right;">Objectives</p> <ul style="list-style-type: none"> • Enumerate causes of hematuria in children . • Describe etio-pathogenesis, clinical features of hematuria in children briefly • Describe algorithm for diagnosis of hematuria accurately • Define referral criteria for children with hematuria accurately • Describe common tests for hematuria briefly 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Human Anatomy	
PE21.5	<p>Enumerate the etio-pathogenesis, clinical features, complications and management of Acute Renal Failure in children</p> <p style="text-align: right;">Objectives</p> <ul style="list-style-type: none"> • Define ARF in children • Classify ARF on basis of RIFLE criteria accurately • Describe etio-pathogenesis, clinical features, complications and management of ARF briefly 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
PE21.6	<p>Enumerate the etio-pathogenesis, clinical features, complications and management of Chronic Renal Failure in Children</p> <p style="text-align: right;">Objectives</p> <ul style="list-style-type: none"> • Define CRF in children • Describe etio-pathogenesis, clinical features, complications and management of CRF briefly 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
PE21.7	<p>Enumerate the etio-pathogenesis, clinical features, complications and management of Wilms Tumor</p> <p style="text-align: right;">Objectives</p> <ul style="list-style-type: none"> • Enumerate the etio-pathogenesis, clinical features of wilms tumor briefly • describe complications and management of Wilms Tumor briefly 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology	
PE21.8	<p>Elicit, document and present a history pertaining to diseases of the Genitourinary tract</p> <p style="text-align: right;">Objectives</p> <ul style="list-style-type: none"> • elicits important history points related to genitourinary tract accurately • documents and presents history adequately 	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment			General Surgery

PE21.9	Identify external markers for Kidney disease, like Failing to thrive, hypertension, pallor, Icthyosis, anasarca Objectives • knows common manifestations of kidney disease • demonstrates external markers like Failing to thrive, hypertension, pallor, Icthyosis, edema accurately	S	SH	Y	Bedside clinics, Skills lab	Document in log book			
PE21.10	Analyse symptom and interpret the physical findings and arrive at an appropriate provisional / differential diagnosis Objectives • records and interprets accurately the symptoms and signs to reach appropriate diagnosis	S	SH	Y	Bedside clinics, Skills lab	Log book			
PE21.11	Perform and interpret the common analytes in a Urine examination Objectives • performs urine examination independently and presents the interpretation of the common tests accurately	S	SH	Y	Bedside clinics, Skills lab	Skill assessment		Biochemistry, Pathology	
PE21.12	Interpret report of Plain X Ray of KUB Objectives • presents the interpretation of the X RAY KUB region accurately	S	SH	Y	Bedside clinics, Skills lab	Log book		Radiodiagnosis	
PE21.13	Enumerate the indications for and Interpret the written report of Ultra sonogram of KUB Objectives • enumerates the indications for ultrasonogram • interprets and presents the report of USG accurately	S	SH	Y	Bedside clinics, Skills lab	Log book		Radiodiagnosis	

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 Objectives • identify common surgical conditions of the abdomen and genitourinary system accurately • enumerate the indications for referral for conditions including acute and subacute intestinal obstruction, appendicitis, pancreatitis, perforation intussusception, Phimosis, undescended testis, Chordee, hypospadiasis, Torsion testis, hernia Hydrocele, Vulval Synechiae	S	SH	Y	Bedside clinics, Skills lab	Log book assessment			General Surgery
PE21.15	Discuss and enumerate the referral criteria for children with genitourinary disorder Objectives • enumerate the referral criteria for children with genitourinary disorder briefly • Describe these referral criteria briefly	S	SH	Y	Bedside clinics, Skills lab	Log book assessment			
PE21.16	Counsel / educate a patient for referral appropriately Objectives • Counsels and educates the patients for the need of referral appropriately and verifies the understanding of the same by the patients	A/C	SH	Y	DOAP session	Document in Log book		AETCOM	
PE21.17	Describe the etiopathogenesis, grading, clinical features and management of hypertension in children Objectives • Discuss the etiopathogenesis, grading, clinical features of hypertension in children • Describes the management of hypertension briefly	K	KH	Y	Lecture, Small group discussion	Short notes			

Topic: Approach to and recognition of a child with possible Rheumatologic problem
Number of competencies: (03) **Number of procedures that require certification: (NIL)**

PE22.1	Enumerate the common Rheumatological problems in children. Discuss the clinical approach to recognition and referral of a child with Rheumatological problem Objectives • Enumerate the common Rheumatological problems • Describe the clinical approach to recognition and referral of a child with Rheumatological problem briefly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE22.2	Counsel a patient with Chronic illness Objectives • Counsels a patient about chronic illness in an appropriate manner and verifies the understanding of the same by the patient	S	SH	N	Bedside clinics Skills lab	Log book			
PE22.3	Describe the diagnosis and management of common vasculitic disorders including Henoch Schonlein Purpura, Kawasaki Disease, SLE, JIA Objectives • Discuss diagnostic plan for common vasculitic disorders accurately • Describe the management of same briefly	K	K	N	Lecture, Small group discussion	Written/ Viva voce			

Topic: Cardiovascular system- Heart Diseases **Number of competencies: (18)** **Number of procedures that require certification:(NIL)**

PE23.1	Discuss the Hemodynamic changes, clinical presentation, complications and management of Acyanotic Heart Diseases –VSD, ASD and PDA Objectives: At the end of session the student should be able to 1. Understand the hemodynamic of acyanotic congenital heart disease. 2. Know and can explain clinical features of acyanotic congenital heart disease. 3. Discuss the complications and management of acyanotic congenital heart disease.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Pathology	
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PE23.2	<p>Discuss the Hemodynamic changes, clinical presentation, complications and management of Cyanotic Heart Diseases – Fallot's Physiology</p> <p>Objectives: At the end of session the student should be able to</p> <ol style="list-style-type: none"> 1. Understand the hemodynamic of cyanotic congenital heart disease. 2. Know and can explain clinical features of cyanotic congenital heart disease (TOF). 3. Discuss the complications and management of cyanotic congenital heart disease (TOF). 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Pathology	
PE23.3	<p>Discuss the etio-pathogenesis, clinical presentation and management of cardiac failure in infant and children</p> <p>Objectives: At the end of session the student should be able to</p> <ol style="list-style-type: none"> 1. Understand the etio-pathogenesis, clinical presentation and management of cardiac failure in infant and children 2. Enumerate the causes of CCF in children and infants. 3. Discuss the pathogenesis of CCF. 4. Discuss the clinical presentations and the management of CCF. 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Pathology	
PE23.4	<p>Discuss the etio-pathogenesis, clinical presentation and management of Acute Rheumatic Fever in children</p> <p>Objectives: At the end of session the student should be able to</p> <ol style="list-style-type: none"> 1. Understand the etio-pathogenesis, clinical presentation and management of Acute Rheumatic Fever in children. 2. Describe etio-pathogenesis, clinical presentation and management of Acute Rheumatic Fever in children 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Pathology	

PE23.5	<p>Discuss the clinical features, complications, diagnosis, management and prevention of Acute Rheumatic Fever</p> <p>Objectives: At the end of session the student should be able to</p> <ol style="list-style-type: none"> 1. Understand the clinical features, complications, diagnosis, management and prevention of Acute Rheumatic Fever. 2. Discuss and describe clinical features, complications, diagnosis and management of Acute Rheumatic Fever. 3. Discuss and describe the primary, secondary and tertiary prevention of acute rheumatic features. 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Pathology	
PE23.6	<p>Discuss the etio-pathogenesis, clinical features and management of Infective endocarditis in children</p> <p>Objectives: At the end of session the student should be able to</p> <ol style="list-style-type: none"> 1. Enumerate the risk factors of infective endocarditis in children. 2. Understand the etio-pathogenesis, clinical features and management of Infective endocarditis in children. 3. Discuss and describe etio-pathogenesis, clinical features and management of Infective endocarditis in children. 4. Discuss the prevention of infective endocarditis in children. 	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Physiology, Pathology, Microbiology	
PE23.7	<p>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.</p> <p>Document and present</p> <p>Objectives: At the end of session the student should be able to</p> <ol style="list-style-type: none"> 1. Take and present appropriate history of a cardiac disease in a child. 2. Evaluate analyse and discuss 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. 	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment			

PE23.8	<p>Identify external markers of a cardiac disease e.g. Cyanosis, Clubbing, dependent edema, dental caries, arthritis, erythema rash, chorea, subcutaneous nodules, Oslers node, Janeway lesions and document</p> <p>Objectives: At the end of session the student should be able to</p> <ol style="list-style-type: none"> 1. Identify, demonstrate and document the markers of a cardiac disease e.g. Cyanosis, Clubbing, dependent edema, dental caries, arthritis, erythema rash, chorea, subcutaneous nodules, Oslers node, Janeway lesions. 	S	SH	Y	Bedside clinics, Skills Lab	Skill Assessment			
PE23.9	<p>Record pulse, blood pressure, temperature and respiratory rate and interpret as per the age</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1. Knows how to record pulse, blood pressure, temperature and respiratory rate. 2. Demonstrates how to record pulse, blood pressure, temperature and respiratory rate. 3. Able to interpret blood pressure, temperature and respiratory rate and interpret as per the age and their centiles 	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment			
PE23.10	<p>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</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1. Able to perform and demonstrate independently examination of the cardiovascular system. 2. Demonstrate for precordial bulge, pulsations in the precordium, JVP and its significance in children and infants 3. Know, documents and demonstrates relevance of percussion in Pediatric examination, Auscultation and other system examination. 	S	SH	Y	Bedside clinics, Skills lab	Skill station			

PE23.11	Develop a treatment plan and prescribe appropriate drugs including fluids in cardiac diseases, anti -failure drugs, and inotropic agents Objectives: 1. Is able to develop and demonstrate a treatment plan and prescribe appropriate drugs including fluids in cardiac diseases, anti -failure drugs, and inotropic agents.	S	SH	Y	Bedside clinics, Skills lab	log book			
PE23.12	Interpret a chest X ray and recognize Cardiomegaly Objectives: 1. Can enumerate the causes of cardiomegaly in children. 2. Is able to recognize and demonstrate cardiomegaly on a chest X-ray	S	SH	Y	Bedside clinics, Skills lab	Log book entry		Radiodiagnosis	
PE23.13	Choose and Interpret blood reports in Cardiac illness Objectives: 1. Is able to choose and plan investigations in cardiac illness in children. 2. Is able to demonstrate the ability to interpret the blood reports in cardiac illness in children.	S	P	Y	Bedside clinics, Small group discussion	Log book entry			
PE23.14	Interpret Pediatric ECG Objectives: 1. Is able to interpret the Pediatric ECG. 2. Is able to demonstrate the ability to interpret Pediatric ECG.	S	SH	Y	Bedside clinics, Skills lab	Log book entry			
PE23.15	Use the ECHO reports in management of cases Objectives: 1. Is able to interpret the ECHO reports in children. 2. Is able to use ECHO reports for managing a child with cardiac illness. 3. Is able to demonstrate the ability to develop a treatment plan based on the ECHO reports.	S	SH	Y	Bedside clinics	Log book entry		Radiodiagnosis	
PE23.16	Discuss the indications and limitations of Cardiac catheterization Objectives: 1. Knows the indications and limitations of Cardiac catheterization. 2. Is able to discuss the indications and limitations of Cardiac catheterization	K	K	N	Small group discussion	Viva voce			

PE23.17	Enumerate some common cardiac surgeries like BT shunt, Potts and Waterston's and corrective surgeries Objectives: 1. Is able to enumerate the indications for cardiac surgeries. 2. Is able to enumerate common cardiac surgeries like BT shunt, Potts and Waterston's and other corrective surgeries.	K	K	N	Small group discussion	Viva voce			
PE23.18	Demonstrate empathy while dealing with children with cardiac diseases in every patient encounter Objectives: 1. Is empathetic towards the cardiac patients. 2. Is able to demonstrate empathy and compassion while dealing with children with cardiac diseases in every patient encounter	A	SH	Y	Small group discussion	Document in Log Book		AETCOM	

Topic: Diarrhoeal diseases and Dehydration certification:(03)	Number of competencies: (17)	Number of procedures that require
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PE24.1	Discuss the etio-pathogenesis, classification, clinical presentation and management of diarrheal diseases in children Objectives: 1. Is able to discuss the etio-pathogenesis, classification, clinical presentation of diarrheal disease in children. 2. Is able to plan and discuss the management of diarrheal diseases in children.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Microbiology	
PE24.2	Discuss the classification and clinical presentation of various types of diarrheal dehydration Objectives: 1. Is able to analyse and discuss the classification of dehydration. 2. Is able to interpret and discuss clinical presentation of various types of diarrheal dehydration.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Microbiology	
PE24.3	Discuss the physiological basis of ORT, types of ORS and the composition of various types of ORS Objectives: 1. Is able to Discuss the physiological basis of ORT. 2. Knows and describes the types of ORS. 3. Knows and describe the composition of various types of ORS.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE24.4	Discuss the types of fluid used in Paediatric diarrheal diseases and their composition Objectives: 1. Is able to discuss and describe the types of fluid used in Pediatric diarrheal diseases. 2. Knows and able to describe the composition of various fluids used in pediatric diarrheal disease.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE24.5	Discuss the role of antibiotics, antispasmodics, anti-secretory drugs, probiotics, anti-emetics in acute diarrheal diseases Objectives: 1. Is able to describe and discuss the role of antibiotics, antispasmodics, anti-secretory drugs, probiotics, anti-emetics in acute diarrheal diseases.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology, Microbiology	
PE24.6	Discuss the causes, clinical presentation and management of persistent diarrhoea in children Objectives: 1. Knows and able to discuss the causes and clinical presentation of persistent diarrhea in children. 2. Know and able to discuss the management plan of persistent diarrhea in children.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	
PE24.7	Discuss the causes, clinical presentation and management of chronic diarrhoea in children Objectives: 1. Is able to define chronic diarrhea in children. 2. Able to enumerate the causes of chronic diarrhea in children. 3. Knows and able to discuss clinical presentation and management of chronic diarrhea in children.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE24.8	Discuss the causes, clinical presentation and management of dysentery in children Objectives: 1. Is able to define dysentery in children. 2. Able to enumerate the causes of dysentery in children. 3. Knows and able to discuss clinical presentation and management of dysentery in children.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pharmacology, Microbiology	

PE24.9	Elicit, document and present history pertaining to diarrheal diseases Objectives: 1. Is able to elicit, document and present history pertaining to diarrheal diseases.	S	SH	Y	Bedside clinics, Skills lab	Skill assessment			
PE24.10	Assess for signs of dehydration, document and present Objectives: 1. Knows and is able to assess for signs of dehydration. 2. Is able to document and demonstrates the signs of dehydration.	S	SH	Y	Bedside clinics, Skills lab	Skill assessment			
PE24.11	Apply the IMNCI guidelines in risk stratification of children with diarrheal dehydration and refer Objectives: 1. Knows the use of IMNCI guidelines in risk stratification of children with diarrheal dehydration. 2. Knows IMNCI guidelines and is able to use them in deciding the referral of a child with dehydration	S	SH	Y	Bedside clinics, Skills lab	Document in Log book			
PE24.12	Perform and interpret stool examination including Hanging Drop Objectives: 1. Performs and interprets stool examination including Hanging Drop preparation.	S	SH	N	Bedside clinics, Skills lab	Log book		Microbiology	
PE24.13	Interpret RFT and electrolyte report Objectives: 1. Is able to interpret and discuss renal function tests and electrolyte reports.	S	SH	Y	Bedside clinics, Small group discussion	Document in Log Book			
PE24.14	Plan fluid management as per the WHO criteria Objectives: 1. Know and is able to demonstrate the plan of fluid management as per the WHO criteria.	S	SH	Y	Bedside clinics, Small group activity	Skills Station			
PE24.15	Perform NG tube insertion in a manikin Objectives: 1. Perform NG tube insertion in a manikin using a DOAP session.	S	P	Y	DOAP session	Document in Log book	2		
PE24.16	Perform IV cannulation in a model Objectives: 1. Perform IV cannulation in a model in a DOAP session	S	P	Y	DOAP session	Document in Log book	2		

PE24.17	Perform Interosseous insertion model Objectives: 1. Perform Interosseous insertion model in a DOAP session.	S	P	Y	DOAP session	Document in Log book	2		
Topic: Malabsorption certification:(NIL)		Number of competencies: (01)			Number of procedures that require				
PE25.1	Discuss the etio-pathogenesis, clinical presentation and management of Malabsorption in Children and its causes including celiac disease Objectives: 1. Enumerate the causes of malabsorption ion children. 2. Knows and is able to discuss the etio-pathogenesis and clinical presentation of malabsorption in Children. 3. Knows and is able to plan and discuss the management of Malabsorption in Children including celiac disease.	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pathology	
Topic: Acute and chronic liver disorders certification: (NIL)		Number of competencies: (13)			Number of procedures that require				
PE26.1	Discuss the etio-pathogenesis, clinical features and management of acute hepatitis in children Objectives: 1. Is able to enumerate the causes of acute hepatitis in children. 2. Knows and able to discuss the etio-pathogenesis and clinical features in acute hepatitis in children. 3. Knows and able to plan and discuss the management of acute hepatitis in children.	K	KH	Y	Lecture, Small group activity	Written/ Viva voce		Pathology, Microbiology	
PE26.2	Discuss the etio-pathogenesis, clinical features and management of Fulminant Hepatic Failure in children Objectives: 1. Is able to enumerate the causes of fulminant hepatic failure in children. 2. Knows and able to discuss the etio-pathogenesis and clinical features in fulminanat hepatic failure in children. 3. Knows and is able to plan and discuss the management of fulminant hepatic failure in children.	K	KH	Y	Lecture, Small group activity	Written/ Viva voce		Pathology, Microbiology	

PE26.3	<p>Discuss the etio-pathogenesis, clinical features and management of chronic liver diseases in children</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1. Is able to enumerate the causes of chronic liver disease in children. 2. Knows and able to discuss the etio-pathogenesis and clinical features of chronic liver disease in children. 3. Knows and is able to plan and discuss the management of chronic liver disease in children 	K	KH	Y	Lecture, Small group activity	Written/ Viva voce		Pathology, Microbiology	
PE26.4	<p>Discuss the etio-pathogenesis, clinical features and management of Portal Hypertension in children</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1. Is able to enumerate the causes of portal hypertension in children. 2. Knows and able to discuss the etio-pathogenesis and clinical features of portal hypertension in children. 3. Knows and is able to plan and discuss the management of portal hypertension in children. 	K	KH	Y	Lecture, Small group activity	Written/ Viva voce		Pathology	
PE26.5	<p>Elicit document and present the history related to diseases of Gastrointestinal system</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1. Is able to elicit, document and present the history related to the diseases of gastrointestinal system. 	S	SH	Y	Bedside clinics, Skills lab	Skills Station			
PE26.6	<p>Identify external markers for GI and Liver disorders e.g.. Jaundice, Pallor, Gynaecomastia, Spider angioma, Palmar erythema, Ichthyosis, Caput medusa, Clubbing, Failing to thrive, Vitamin A and D deficiency</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1. Is able to Identify and demonstrate external markers for GI and Liver disorders e.g.. Jaundice, Pallor, Gynaecomastia, Spider angioma, Palmar erythema, Ichthyosis, Caput medusa, Clubbing, Failing to thrive, etc. 2. Is able to identify and demonstrate the signs of Vitamin A and D deficiency in children. 	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment			

PE26.7	Perform examination of the abdomen, demonstrate organomegaly, ascites etc. Objectives: 1. Is able to perform the examination of abdomen. 2. Is able to demonstrate findings in abdominal examination like organomegaly, ascitis, etc.	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment			
PE26.8	Analyse symptoms and interpret physical signs to make a provisional/ differential diagnosis Objectives: 1. Is able to analyze, correlate and interpret physical signs to make a provisional/ differential diagnosis	S	SH	Y	Bedside clinics, Skill lab	Skill Assessment			
PE26.9	Interpret Liver Function Tests, viral markers, ultra sonogram report Objectives: 1. Is able to analyze, correlate and interpret Liver Function Tests, viral markers, ultra sonogram report in making a diagnosis.	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment		Pathology	
PE26.10	Demonstrate the technique of liver biopsy in a Perform Liver Biopsy in a simulated environment Objectives: 1. Demonstrate the technique of liver biopsy in a Perform Liver Biopsy in a simulated environment and records in the log book.	S	SH	Y	DOAP session	Document in log book			
PE26.11	Enumerate the indications for Upper GI endoscopy Objectives: 1. Is able to enumerate the indications of Upper GI endoscopy in children.	K	K	N	Small group discussion	Viva voce			
PE26.12	Discuss the prevention of Hep B infection – Universal precautions and Immunisation Objectives: 1. Knows and is able to discuss the prevention of Hepatitis B. 2. Knows and is able to perform universal precautions and immunization in prevention of Hepatitis B.	K	KH	Y	Lecture, Small group activity	Written/ Viva voce		Microbiology	
PE26.13	Counsel and educate patients and their family appropriately on liver diseases Objectives: 1. Is able to perform the counseling and is able to educate the patient and their family appropriately on liver disease.	A/C	P	y	Bedside clinics, Skills lab	Document in log book			

Topic: Pediatric Emergencies – Common Pediatric Emergencies certification :(10)

Number of competencies: (35)

Number of procedures that require

PE27.1	List the common causes of morbidity and mortality in the under five children	K	K	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.2	Describe the etio-pathogenesis, clinical approach and management of cardiorespiratory arrest in children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.3	Describe the etio-pathogenesis of respiratory distress in children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.4	Describe the clinical approach and management of respiratory distress in children Objective 1 : At the end of the session ,Phase III students must be able to describe the clinical features of respiratory distress in children correctly . Objective 2: At the end of the session ,Phase III students must be able to describe the management of respiratory distress in children. Objective 3 : At the end of the session ,Phase III students must be able to identify respiratory distress in children correctly . Objective 4 : At the end of the session ,Phase III students must be able manage respiratory distress in children correctly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE27.5	<p>Describe the etio-pathogenesis, clinical approach and management of Shock in children</p> <p>Objective 1 : At the end of the session ,Phase III students must be able to describe the etiology & pathogenesis of shock in children correctly .</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to describe the clinical features of shock in children correctly .</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to describe the management of shock in children correctly .</p> <p>Objective 4 : At the end of the session ,Phase III students must be able to document the etiology & pathogenesis of shock in children correctly .</p> <p>Objective 5 : At the end of the session ,Phase III students must be able to identify shock in children correctly .</p> <p>Objective 6 : At the end of the session ,Phase III students must be able to manage shock in children correctly</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.6	<p>Describe the etio-pathogenesis, clinical approach and management of Status epilepticus</p> <p>Objective 1 : At the end of the session ,Phase III students must be able to describe the etiology & pathogenesis of status epileptic us children correctly .</p> <p>Objective 2: At the end of the session ,Phase III students must be able to clinical features of status epileptic us correctly .</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to describe the management of status epileptic us correctly .</p> <p>Objective 4 : At the end of the session ,Phase III students must be able to identify status epileptic us correctly .</p> <p>Objective 5 : At the end of the session ,Phase III students must be able to document the etiology & pathogenesis of status epileptic us correctly .</p> <p>Objective 6 : At the end of the session ,Phase III students must be able to manage of status epileptic us correctly .</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE27.7	<p>Describe the etio-pathogenesis, clinical approach and management of an unconscious child Objective 1 : At the end of the session ,Phase III students must be able to describe the etiology & pathogenesis of unconscious child correctly .</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to describe the clinical features of unconscious child correctly .</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to describe management of an unconscious child correctly .</p> <p>Objective 4 : At the end of the session ,Phase III students must be able to identify unconscious child correctly .</p> <p>Objective 5 : At the end of the session ,Phase III students must be able to document etiology & pathogenesis of an unconscious child correctly .</p> <p>Objective 6 : At the end of the session ,Phase III students must be able to manage an unconscious child correctly</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.8	<p>Discuss the common types, clinical presentations and management of poisoning in children Objective 1 : At the end of the session ,Phase III students must be able to describe common types of poisoning in children correctly .</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to describe clinical features of poisoning in children correctly .</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to describe management of poisoning children correctly .</p> <p>Objective 4 : At the end of the session ,Phase III students must be able to common types of poisoning in children correctly .</p> <p>Objective 5 : At the end of the session ,Phase III students must be able to identify clinical features in poisoning children correctly .</p> <p>Objective 6 : At the end of the session ,Phase III students must be able to manage poisoning in children correctly .</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE27.9	<p>Discuss oxygen therapy, in Pediatric emergencies and modes of administration Objective 1 : At the end of the session ,Phase III students must be able to discuss oxygen therapy in pediatrics emergencies correctly .</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to Enlist models of administrations of oxygen therapy correctly .</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to document oxygen therapy in pediatrics emergencies correctly .</p> <p>Objective 4 : At the end of the session ,Phase III students must be able to demonstrate models of administration of oxygen therapy correctly</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.10	<p>Observe the various methods of administering Oxygen Objective 1 : At the end of the session ,Phase III students must be able to identify various method of administrations oxygen correctly .</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to perform various methods of oxygen administrations correctly</p>	S	KH	Y	Demonstration	Document in log book			
PE27.11	<p>Explain the need and process of triage of sick children brought to health facility Objective 1 : At the end of the session ,Phase III students must be able to describe the process need for triage of sick children brought to healthy facility correctly .</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to describe the process of triage of sick children brought to healthy facility correctly .</p> <p>Objective 3: At the end of the session ,Phase III students must be able to demonstrate the process for triage of sick children brought to healthy facility correctly .</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.12	<p>Enumerate emergency signs and priority signs Objective 1 : At the end of the session ,Phase III students must be able to describe the emergency & priority sign correctly .</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to identify the emergency & priority sign correctly.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE27.13	List the sequential approach of assessment of emergency and priority signs Objective 1 : At the end of the session ,Phase III students must be able to describe the sequential approach to assessment of emergency & priority signature correctly. Objective 2 : At the end of the session ,Phase III students must be able to identify the sequential approach to assessment of emergency & priority signature correctly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.14	Assess emergency signs and prioritize Objective 1 : At the end of the session ,Phase III students must be able to identify emergency & priority signature correctly. Objective 2 : At the end of the session ,Phase III students must be able to perform assessment of emergency & priority signature	S	SH	Y	DOAP session, Skills lab	Skills Assessment			
PE27.15	Assess airway and breathing: recognise signs of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting	S	P	Y	DOAP session, Skills lab	Skills Assessment	3		
PE27.16	Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment	S	P	Y	DOAP session, Skills Lab	Skills Assessment	3		
PE27.17	Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate	S	P	Y	DOAP session, Skills Lab	Skills Assessment	3		
PE27.18	Assess airway and breathing: perform assisted ventilation by Bag and mask in a simulated environment	S	P	Y	DOAP session, Skills lab	Skills Assessment	3		
PE27.19	Check for signs of shock i.e. pulse, Blood pressure, CRT	S	P	Y	DOAP session, Skills Lab	Skills Assessment	3		
PE27.20	Secure an IV access in a simulated environment	S	P	Y	DOAP session, Skills Lab	Skills Assessment	3		
PF27.21	Choose the type of fluid and calculate the fluid requirement in shock	S	P	Y	DOAP session, Small group activity	Skills Assessment	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	S	P	Y	DOAP session, Skills Lab	Skills Assessment	3		
PE27.23	Assess for signs of severe dehydration	S	P	Y	Bedside clinics, Skills lab	Skill station	3		
PE27.24	Monitoring and maintaining temperature: define hypothermia. Describe the clinical features, complications and management of Hypothermia Objective 1 : At the end of the session ,Phase III students must be able to Define hypothermic correctly. Objective 2: At the end of the session ,Phase III students must be able to describe the clinical features of hypothermic correctly. Objective 3 : At the end of the session ,Phase III students must be able to describe the complications of hypothermic correctly. Objective 4: At the end of the session ,Phase III students must be able to describe management of hypothermic correctly. Objective 5 : At the end of the session ,Phase III students must be able to identity hypothermic correctly. Objective 6: At the end of the session, Phase III students must be able to identity complications of hypothermic correctly. Objective 7 : At the end of the session ,Phase III students must be able to manages hypothermic correctly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE27.25	Describe the advantages and correct method of keeping an infant warm by skin to skin contact Objective 1 : At the end of the session ,Phase III students must be able to describe the advantage of keeping an infants warm by skin to skin contact correctly. Objective 2 : At the end of the session ,Phase III students must be able to describe the correct method of keeping an infant warm by skin to skin correctly. Objective 3 : At the end of the session ,Phase III students must be able to document the advantage of keeping an infant warm skin to skin contact correctly. Objective 4 : At the end of the session ,Phase III students must be able to identify the correct method of keeping an infant warm by skin to skin contact correctly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.26	Describe the environmental measures to maintain temperature Objective 1 : At the end of the session ,Phase III students must be able to describe the enviourmental measures to maintain temperature correctly. Objective 2 : At the end of the session ,Phase III students must be able to identify the enviourmental measures to maintain temperature correctly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.27	Assess for hypothermia and maintain temperature	S	SH	Y	Skills lab	Skills Assessment			
PE27.28	Provide BLS for children in manikin	S	P	Y	Skills Lab		3		

PE.27.29	Discuss the common causes, clinical presentation, medico-legal implications of abuse Objective 1 : At the end of the session ,Phase III students must be able to describe common causes of assure correctly. Objective 2 : At the end of the session ,Phase III students must be able to describe clinical features of assure correctly. Objective 3 : At the end of the session ,Phase III students must be able to describe media legal assure correctly. Objective 4 : At the end of the session ,Phase III students must be able to identify common causes of assure correctly. Objective 5 : At the end of the session ,Phase III students must be able to identify clinical features common assure correctly. Objective 6 : At the end of the session ,Phase III students must be able to identify media legal implications of assure correctly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE27.30	Demonstrate confidentiality with regard to abuse	A	SH	Y	Skills lab, standardized patients	Skills Station			
PE27.31	Assess child for signs of abuse	S	SH	Y	DOAP session, Skills lab	Log book			
PE27.32	Counsel parents of dangerously ill / terminally ill child to break a bad news	S	SH	Y	DOAP session	Document in Log book			
PE27.33	Obtain Informed Consent	S	SH	Y	DOAP session	Document in Log book			
PE27.34	Willing to be a part of the ER team	A	SH	Y	DOAP session	Document in Log book			
PE27.35	Attends to emergency calls promptly	A	SH	Y	DOAP session	Document in Log Book			
Topic: Respiratory system certification: (NIL)		Number of competencies: (20)				Number of procedures that require			

PE28.1	<p>Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis</p> <p>Objective 1 : At the end of the session ,Phase III students must be able to describe etiology & pathogenesis of Nasopharyngitis correctly.</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to describe clinical features of Nasopharyngitis correctly.</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to describe management of Nasopharyngitis correctly.</p> <p>Objective 4: At the end of the session ,Phase III students must be able to identity etiology & pathogenesis of Nasopharyngites correctly.</p> <p>Objective 5 : At the end of the session ,Phase III students must be able to identity clinical features of Nasopharyngitis correctly.</p> <p>Objective 6 : At the end of the session ,Phase III students must be able to manage now Nasopharyngitis correctly.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		ENT	
PE28.2	<p>Discuss the etio-pathogenesis of Pharyngo Tonsillitis</p> <p>Objective 1 : At the end of the session ,Phase III students must be able to describe etiology & pathogenesis of pharynges tonsillitis correctly.</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to describe etiology features of pharynges tonsillitis correctly.</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to identity pathology of pharynges tonsillitis for correctly.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		ENT	

PE28.3	<p>Discuss the clinical features and management of Pharyngo Tonsillitis Objective</p> <p>1 : At the end of the session ,Phase III students must be able to describe the clinical features of pharyngostonsillities correctly</p> <p>Objective 2 : At the end of the session ,Phase III students mus tbe able to describe the management of pharyngostonsillities correctly</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to identify clinical features correctly</p> <p>Objective 4 : At the end of the session ,Phase III students must be able to manage pharyngostonsillities correctly</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		ENT	
PE28.4	<p>Discuss the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM) Objective 1</p> <p>: At the end of the session ,Phase III students must be able to describe etiology & pathology of Aom correctly.</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to discuss clinical features of Aom correctly.</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to describe management of Aom correctly.</p> <p>Objective 4 : At the end of the session ,Phase III students must be able to identity etiology & pathology of Aom correctly.</p> <p>Objective 5 : At the end of the session ,Phase III students must be able to identity clinical features of Aom correctly.</p> <p>Objective 6 : At the end of the session ,Phase III students must be able to manage Aom correctly.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		ENT	

PE28.5	<p>Discuss the etio-pathogenesis, clinical features and management of Epiglottitis</p> <p>Objective 1 : At the end of the session ,Phase III students must be able to describe etiopathogenesis , clinical features & management of epiglottitis correctly.</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to identify etiology ,pathology & clinical features & management epiglottitis correctly.</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to manage epiglottitis correctly</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		ENT	
PE28.6	<p>Discuss the etio-pathogenesis, clinical features and management of Acute laryngo- trachea-bronchitis</p> <p>Objective 1 : At the end of the session ,Phase III students must be able to describe etiopathogenesis , clinical features of acute laryngo tracheobronchitis & correctly.</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to identify etiopathogenesis, clinical features acute laryngo tracheobronchitis correctly.</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to manage acute laryngo tracheobronchitis correctly</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		ENT	
PE28.7	<p>Discuss the etiology, clinical features and management of Stridor in children</p> <p>Objective 1 : At the end of the session ,Phase III students must be able to describe etiology clinical features & management of stridor in children correctly.</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to identify etiology & clinical features of stridor in children correctly.</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to manage stridor in children correctly</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		ENT	

PE28.8	Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children Objective 1 : At the end of the session ,Phase III students must be able to describe types of FB aspiration in infants children correctly. Objective 2 : At the end of the session ,Phase III students must be able to describe types of FB aspiration in infants children correctly. Objective 3 : At the end of the session ,Phase III students must be able to discuss management of FB aspiration in infants children correctly. Objective 4 : At the end of the session ,Phase III students must be able to identity types of FB aspiration in infants children correctly. Objective 5 : At the end of the session ,Phase III students must be able to identity clinical features of FB aspiration in infants children correctly. Objective 6: At the end of the session ,Phase III students must be able to manage FB aspiration in infants children correctly.	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		ENT	
PE28.9	Elicit, document and present age appropriate history of a child with upper respiratory problem including Stridor	S	SH	Y	Bedside clinics, skill lab	Skill Assessment		ENT	
PE28.10	Perform otoscopic examination of the ear	S	SH	Y	DOAP session	Skills Assessment		ENT	
PE28.11	Perform throat examination using tongue depressor	S	SH	Y	DOAP session	Skills Assessment		ENT	
PE28.12	Perform examination of the nose	S	SH	Y	DOAP session	Skills Assessment		ENT	
PE28.13	Analyse the clinical symptoms and interpret physical findings and make a provisional / differential diagnosis in a child with ENT symptoms	S	SH	Y	Bedside clinics	Skills Assessment			
PE28.14	Develop a treatment plan and document appropriately in a child with upper respiratory symptoms	S	SH	Y	Bedside clinics	Skills Assessment			
PE28.15	Stratify risk in children with stridor using IMNCI guidelines	S	SH	Y	Bedside clinics	Log book documentation			

PE28.16	Interpret blood tests relevant to upper respiratory problems	S	SH	N	Bedside clinics, Small group discussion	Log book			
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	S	SH	Y	Bedside clinics, Small group discussion	Skills Assessment		ENT, Radiodiagnosis	
PE28.18	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of lower respiratory infections including bronchiolitis, wheeze associated LRTI Pneumonia and empyema	S	SH	Y	Bedside clinics, Small group discussion, Lecture	Skill Assessment/ Written/ Viva voce			
PE28.19	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of asthma in children	S	SH	Y	Bedside clinics, Small group discussion, Lecture	Skill Assessment/ Written/ Viva voce		Respiratory Medicine	
PE28.20	Counsel the child with asthma on the correct use of inhalers in a simulated environment	S	SH	Y	Bedside clinics, Small group discussion, Lecture	Skills Assessment/ Written/ Viva voce		Respiratory Medicine	

**Topic: Anemia and other Hemato-oncologic disorders in children
certification: (NIL)**

Number of competencies: (20)

Number of procedures that require

PE29.1	<p>Discuss the etio-pathogenesis, clinical features, classification and approach to a child with anaemia</p> <p>Objective 1 : At the end of the session ,Phase III students must be able to describe etiology & pathology of anemia in child correctly.</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to describe etiology & pathology of anemia in child correctly.</p> <p>Objective 3 : At the end of the session ,Phase III students must be able to describe different types of anemia correctly.</p> <p>Objective 4 : At the end of the session ,Phase III students must be able to describe the approach to a child correctly.</p> <p>Objective 5 : At the end of the session ,Phase III students must be able to describe etiology ,pathology & clinical features of anemia in child with correctly.</p> <p>Objective 6: At the end of the session ,Phase III students must be able to classify anemia in a child correctly.</p> <p>Objective 7 : At the end of the session ,Phase III students must be able to approach to child with anemia correctly.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	
PE29.2	<p>Discuss the etio-pathogenesis, clinical features and management of Iron Deficiency anaemia</p> <p>Objective 1 : At the end of the session ,Phase III students must be able to describe etiology pathology & clinical features of iron deficiency anemia correctly.</p> <p>Objective 2 : At the end of the session ,Phase III students must be able to describe management of iron deficiency anemia correctly.</p> <p>Objective 3: At the end of the session ,Phase III students must be able to identify etiology , pathology & clinical features of iron deficiency anemia in child correctly.</p> <p>Objective 4 : At the end of the session ,Phase III students must be able to manage iron deficiency anemia currently.</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	

PE29.3	Discuss the etiopathogenesis, clinical features and management of VIT B12, Folate deficiency anaemia Objective: At the end of the session the student must able to Describe the etiopathogenesis of anaemia Discuss the clinical features of vit b-12 and Folate deficiency anaemia Able to define the megaloblastic anaemia Discuss the management of vit B-12, Folate deficiency anaemia	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	
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 Objective: At the end of the session the student must able to Define haemolytic anaemia Discuss the clinical features of haemolytic anaemia Describe the various types of haemolytic anaemia Enumerate the causes of haemolytic anaemia Describe the etio-pathogenesis of haemolytic anaemia	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Pathology, Physiology	
PE29.5	Discuss the National Anaemia Control Program Objective: At the end of the session the student must able to Describe the National Anaemia Control Program List the components of the National Anaemia Control Program Discuss the importance of the National Anaemia Control Program	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Community Medicine	
PE29.6	Discuss the cause of thrombocytopenia in children: describe the clinical features and management of Idiopathic Thrombocytopenic Purpura (ITP) Objective: At the end of the session the student must able to Enumerate the cause of thrombocytopenia in children Describe Idiopathic Thrombocytopenic Purpura (ITP) Discuss the clinical features of ITP Discuss the management of ITP	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pathology	

PE29.7	Discuss the etiology, classification, pathogenesis and clinical features of Hemophilia in children Objective: At the end of the session the student must able to Discuss the etiology of Hemophilia Classify the Hemophilia Describe the pathogenesis Discuss the clinical features	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pathology	
PE29.8	Discuss the etiology, clinical presentation and management of Acute Lymphoblastic Leukemia in children Objective: At the end of the session the student must able to Discuss the etiology of Acute Lymphoblastic Leukemia (ALL) Describe the management of ALL Discuss the clinical features of ALL	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pathology	
PE29.9	Discuss the etiology, clinical presentation and management of lymphoma in children Objective: At the end of the session the student must able to Discuss the etiology of Lymphoma Describe the management of Lymphoma Discuss the clinical features of Lymphoma Define Lymphoma	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		Pathology	
PE29.10	Elicit, document and present the history related to Hematology Objective: At the end of the session the student must able to Record the history related to Hematology Interpret the information based on the history for making the diagnosis Identify the cause Present the history related to Hematology	S	SH	Y	Bedside clinics, Skills lab	Skills Station			
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 Objective: At the end of the session the student must able to Identify the external markers for haematological disorders Document the external markers for haematological disorders Perform independently clinical examination to identify the markers of haematological disorders	S	SH	Y	Bedside clinics, Skills lab	Skill assessment			

PE29.12	Perform examination of the abdomen, demonstrate organomegaly Objective: At the end of the session the student must able to Perform examination of the abdomen under supervision Identify the Organomegaly Demonstrate the organomegaly	S	SH	Y	Bedside clinics, Skills lab	Skill assessment			
PE29.13	Analyse symptoms and interpret physical signs to make a provisional/ differential diagnosis Objective: At the end of the session the student must able to Identify the symptoms and physical signs Able to make the differential diagnosis /provisional diagnosis Perform the examination under supervision to identify the signs Able to record the possible diagnosis	S	SH	Y	Bedside clinics, Skill lab	Skill assessment			
PE29.14	Interpret CBC, LFT Objective: At the end of the session the student must able to Identify the abnormality in CBC ,LFT Differentiate between normal and abnormal CBC/LFT findings identify the aetiology of anaemia correctly from a given set of CBC/LFT parameters Intercept the type of anaemia (haemolytic /non-hemolytic)	S	SH	Y	Bedside clinics, Skills lab	Skill assessment			
PE29.15	Perform and interpret peripheral smear Objective: At the end of the session the student must able to Prepare the good peripheral smear (perform independently) Identify the normal findings in the peripheral smear Differentiate between various normal cells(RBC/WBC etc.) Intercept the type of anaemia based on the findings of the peripheral smear	S	SH	Y	DOAP session	Document in log book			
PE29.16	Discuss the indications for Hemoglobin electrophoresis and interpret report Objective: At the end of the session the student must able to Enumerate the indications for Hemoglobin electrophoresis Identify the normal findings in the Hemoglobin electrophoresis Describe the various types of hemoglobinopathies based on electrophoresis	K	K	N	Small group discussion	Viva voce		Biochemistry	

PE29.17	Demonstrate performance of bone marrow aspiration in manikin Objective: At the end of the session the student must able to Perform the bone marrow aspiration in manikin under supervision Demonstrate the method of bone marrow aspiration in manikin	S	SH	Y	Skills lab	Document in log Book			
PE29.18	Enumerate the referral criteria for Hematological conditions Objective: At the end of the session the student must able to Identify the referral criteria for Hematological conditions Document the referral criteria for Hematological conditions	S	SH	Y	Bedside clinics, Small group activity	Viva voce			
PE29.19	Counsel and educate patients about prevention and treatment of anemia Objective: At the end of the session the student must able to Counsel the patients about prevention of anemia Educate the patients about prevention of anemia Demonstrate understanding about prevention and treatment of anaemia Counsel the patients about treatment of anaemia	A/C	SH	Y	Bedside clinics, Skills lab	Document in log book			
PE29.20	Enumerate the indications for splenectomy and precautions Objective: At the end of the session the student must able to List the indications for splenctomy Describe the precautions Enumerate the causes of splenomegaly	K	K	N	Small group Activity	Viva voce			
Topic: Systemic Pediatrics-Central Nervous system certification:(NIL)									
Number of competencis: (23)									
Number of procedures that require									
PE30.1	Discuss the etio-pathogenesis, clinical features , complications, management and prevention of meningitis in children Objective: At the end of the session the student must able to Enumerate the etiology of the meningitis Discuss the pathogenesis of meningitis Discuss the clinical features of meningitis Discuss the complications of meningitis Describe the management of meningitis	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	

PE30.2	Distinguish bacterial, viral and tuberculous meningitis Objective: At the end of the session the student must able to Differentiate between bacterial, viral and tuberculous meningitis List the clinical features of bacterial, viral and tuberculosis meningitis Discuss the management of bacterial, viral and tuberculosis meningitis	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	
PE30.3	Discuss the etio-pathogenesis, classification, clinical features, complication and management of Hydrocephalus in children Objective: At the end of the session the student must able to Discuss the etio-pathogenesis and management of Hydrocephalus in children Enumerate the , clinical features, of Hydrocephalus in children Classify the Hydrocephalus in children List the complications and of Hydrocephalus in children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE30.4	Discuss the etio-pathogenesis, classification, clinical features, and management of Microcephaly in children Objective: At the end of the session the student must able to Discuss the etio-pathogenesis, and management of Microcephaly in children Enumerate the clinical features of Microcephaly in children Classify the Microcephaly in children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE30.5	Enumerate the Neural tube defects. Discuss the causes, clinical features, types, and management of Neural Tube defect Objective: At the end of the session the student must able to Enumerate the Neural tube defects. Discuss the clinical features of Neural Tube defect List the causes and types of Neural Tube defect Describe the management of Neural Tube defect	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE30.6	Discuss the etio-pathogenesis, clinical features, and management of Infantile hemiplegia Objective: At the end of the session the student must able to Define and Discuss the etio-pathogenesis of Infantile hemiplegia Describe management of Infantile hemiplegia List the clinical features, and management of Infantile hemiplegia	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE30.7	Discuss the etio-pathogenesis, clinical features, complications and management of Febrile seizures in children Objective: At the end of the session the student must able to Define the Febrile seizures in children Discuss the etio-pathogenesis of Febrile seizures in children Describe the management of Febrile seizures in children List the clinical features and complications of Febrile seizures in children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE30.8	Define epilepsy. Discuss the pathogenesis, clinical types, presentation and management of Epilepsy in children Objective: At the end of the session the student must able to Define epilepsy Discuss the pathogenesis of Epilepsy in children Classify clinical types of Epilepsy Describe the management of Epilepsy in children Discuss the clinical presentation of Epilepsy	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE30.9	Define status Epilepticus. Discuss the clinical presentation and management Objective: At the end of the session the student must able to Define status Epilepticus Discuss the clinical presentation of status Epilepticus Describe the management status Epilepticus	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE30.10	Discuss the etio-pathogenesis, clinical features and management of Mental retardation in children Objective: At the end of the session the student must able to Discuss the etio-pathogenesis of Mental retardation in children Enumerate the , clinical features of Mental retardation in children Describe the management of Mental retardation in children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE30.11	Discuss the etio-pathogenesis, clinical features and management of children with cerebral palsy Objective: At the end of the session the student must able to Define cerebral palsy Discuss the etio-pathogenesis of cerebral palsy Enumerate the clinical features of children with cerebral palsy Describe the management of children with cerebral palsy Classify the types of cerebral palsy	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE30.12	Enumerate the causes of floppiness in an infant and discuss the clinical features, differential diagnosis and management Objective: At the end of the session the student must able to Enumerate the causes of floppiness in an infant Discuss the clinical features, and management Classify floppiness in an infant and list the differential diagnosis	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE30.13	Discuss the etio-pathogenesis, clinical features, management and prevention of Poliomyelitis in children Objective: At the end of the session the student must able to Discuss the etio-pathogenesis of Poliomyelitis in children Describe the clinical features of Poliomyelitis in children Discuss the prevention of Poliomyelitis in children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	
PE30.14	Discuss the etio-pathogenesis, clinical features and management of Duchene muscular dystrophy Objective: At the end of the session the student must able to Discuss the etio-pathogenesis Duchene muscular dystrophy Describe the clinical features and management of Duchene muscular dystrophy Classify the other muscular dystrophies	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE30.15	Discuss the etio-pathogenesis, clinical features and management of Ataxia in children Objective: At the end of the session the student must able to Classify Ataxia in children Discuss the etio-pathogenesis, of Ataxia in children Describe the clinical features and management of Ataxia in children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE30.16	Discuss the approach to and management of a child with headache Objective: At the end of the session the student must able to Classify of a child with headache Discuss the management of a child with headache List the causes of a child with headache	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE30.17	Elicit document and present an age appropriate history pertaining to the CNS Objective: At the end of the session the student must able to Elicit an age appropriate history pertaining to the CNS Record the progression of illness and nature	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment			
PE30.18	Demonstrate the correct method for physical examination of CNS including identification of external markers. Document and present clinical findings Objective: At the end of the session the student must able to Demonstrate the correct method for physical examination of CNS independently Perform the correct method for physical examination of CNS including identification of external markers. Independently Document and present clinical findings of CNS	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment			
PE30.19	Analyse symptoms and interpret physical findings and propose a provisional / differential diagnosis Objective: At the end of the session the student must able to Document the symptoms and interpret physical findings and propose a provisional / differential diagnosis Analyse the physical findings and symptoms, propose a provisional / differential diagnosis	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment			
PE30.20	Interpret and explain the findings in a CSF analysis Objective: At the end of the session the student must able to Identify the normal findings in a CSF analysis Analyse the abnormal findings in a CSF	S	SH	Y	Small group discussion	Log book		Microbiology	
PE30.21	Enumerate the indication and discuss the limitations of EEG, CT, MRI Objective: At the end of the session the student must able to Enumerate the indications of EEG, CT,MRI Discuss the limitations of EEG, CT,MRI Compare the advantage and disadvantages of CT/MRI in CNS imaging	K	K	N	Bedside clinics	Log book			

PE30.22	Interpret the reports of EEG, CT, MRI Objective: At the end of the session the student must able to Interpret the report of EEG Interpret the reports of CT Identify the normal anatomy of CNS in MRI/CT film	S	SH	Y	Bedside clinics, Skills lab	Log book		Radiodiagnosis	
PE30.23	Perform in a mannequin lumbar puncture. Discuss the indications, contraindication of the procedure Objective: At the end of the session the student must able to Perform independently in a mannequin lumbar puncture Document the indications, contraindication of the procedure of lumbar puncture	S	SH	Y	Bedside clinics, Skills lab	Skill Assessment			

Topic: Allergic Rhinitis , Atopic Dermatitis, Bronchial Asthma , Urticaria Angioedema

Number of competencies: (12)

Number of procedures that require certification: (NIL)

PE31.1	Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children Objective: At the end of the session the student must able to Describe the the etio-pathogenesis Allergic Rhinitis in Children Discuss the management of Allergic Rhinitis in Children Describe the prevention of Allergic Rhinitis in Children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		ENT	
PE31.2	Recognize the clinical signs of Allergic Rhinitis Objective: At the end of the session the student must able to Identify the clinical signs of Allergic Rhinitis Demonstrate the clinical signs of Allergic Rhinitis Interpret the clinical signs of Allergic Rhinitis	S	SH	Y	Bedside clinics' Skill Lab	Skill Assessment		ENT	
PE31.3	Describe the etio-pathogenesis, clinical features and management of Atopic dermatitis in Children Objective: At the end of the session the student must able to Describe the etio-pathogenesis Atopic dermatitis in Children Discuss the clinical features of Atopic dermatitis in Children Discuss the management of Atopic dermatitis in Children Differentiate the Atopic dermatitis from other common skin conditions in Children	K	KH	Y	Lecture Small group discussion	Written/ Viva voce		ENT	

PE31.4	Identify Atopic dermatitis and manage Objective: At the end of the session the student must able to Identify Atopic dermatitis Describe the management of Atopic dermatitis Demonstrate how to identify the Atopic dermatitis	S	SH		Bedside clinics Skills lab	Skill Assessment		Dermatology, Venereology & Leprosy	
PE31.5	Discuss the etio-pathogenesis, clinical types, presentations, management and prevention of childhood Asthma Objective: At the end of the session the student must able to Discuss the etio-pathogenesis of childhood Asthma Classify the clinical types of childhood Asthma Describe the clinical presentations of childhood Asthma Discuss the prevention of childhood Asthma Discuss the management of childhood Asthma	K	KH	Y	Lecture Small group discussion	Written/ Viva voce			
PE31.6	Recognise symptoms and signs of Asthma Objective: At the end of the session the student must able to Identify the symptoms and signs of Asthma in children Demonstrate how to identify the symptoms and signs of Asthma children Perform the clinical examination in a child with Asthma independently	S	SH	Y	Bedside clinic, Small group activity	Skill Assessment			
PE31.7	Develop a treatment plan for Asthma appropriate to clinical presentation & severity Objective: At the end of the session the student must able to Identify the severity of Asthma Demonstrate a treatment plan for Asthma appropriate to clinical presentation & severity	S	SH	Y	Bedside clinic, Small group activity	Skill Assessment			
PE31.8	Enumerate criteria for referral Objective: At the end of the session the student must able to Enumerate the criteria for referral of child with Asthma Identify the clinical signs of severe Asthma	K	KH	Y	Bedside clinic, Small group activity	Written/ Viva voce			
PE31.9	Interpret CBC and CX Ray in Asthma Objective: At the end of the session the student must able to Identify the abnormal finding in the CBC Identify the abnormal finding in the Chest X-ray Document the other causes with similar finding in CBC/Chest X-ray	S	SH	Y	Bedside clinic, Small group activity	Skill Assessment			

PE31.10	Enumerate the indications for PFT Objective: At the end of the session the student must able to Enumerate the indications for PFT Describe the PFT Define the common parameters used in PFT	K	K	N	Bedside clinic, Small group activity	Viva voce			
PE31.11	Observe administration of Nebulisation Objective: At the end of the session the student must able to Demonstrate the method of Nebulisation Perform the correct method of administration of Nebulisation	S	SH	Y	DOAP session	Document in log book			
PE31.12	Discuss the etio-pathogenesis, clinical features and complications and management of Urticaria Angioedema Objective: At the end of the session the student must able to Describe the etio-pathogenesis of Urticaria Angioedema Discuss the clinical complications of Urticaria Angioedema Discuss the management of Urticaria Angioedema	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

Topic: Chromosomal Abnormalities **Number of competencies: (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 Objective :-After the session student will be able to	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Human Anatomy	
PE32.2	Identify the clinical features of Down's Syndrome Objective :-After the session student will be able to Demonstrate the clinical signs of Down's Syndrome List all the clinical signs of Down's Syndrome	S	SH	Y	Bedside clinics, Skills lab	log book		General Medicine	
PE32.3	Interpret normal Karyotype and recognize Trisomy 21 Objective :-After the session student will be able to Know about the normal karyotype Interpret normal Karyotype and recognize Trisomy 21 accurately Differentiate between the normal karyotype and Trisomy 21	S	SH	Y	Bedside clinics, Skills lab	Log book			General Medicine

PE32.4	Discuss the referral criteria and Multidisciplinary approach to management Objective :-After the session student will be able to Discuss the referral criteria of down's syndrome in detail. Describe the multidisciplinary approach to management of down's syndrome	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE32.5	Counsel parents regarding 1. Present child 2. Risk in the next pregnancy Objective :-After the session student will be able to Educate and counsel parents regarding present child with down's syndrome and check their understanding Educate and counsel parents regarding in the next pregnancy and check their understanding	A/C	SH	N	Bedside clinics, Skills lab	Log book			
PE32.6	Discuss the genetic basis, risk factors, clinical features, complications, prenatal diagnosis, management and genetic counselling in Turner's Syndrome Objective :-After the session student will be able to Describe the genetic basis, prenatal diagnosis, management and genetic counselling in Turner's Syndrome in detail Enumerate the risk factors, clinical features, complication in Turner's Syndrome	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		General Medicine, Obstetrics & Gynaecology	
PE32.7	Identify the clinical features of Turner Syndrome Objective :-After the session student will be able to Demonstrate the clinical signs of Turner Syndrome List all the clinical signs of Turner Syndrome	S	SH	N	Bedside clinics, Skills lab	Log book		General Medicine	
PE32.8	Interpret normal Karyotype and recognize the Turner Karyotype Objective :-After the session student will be able to Know about the normal karyotype Interpret normal Karyotype and recognize Turner Karyotype accurately Differentiate between the normal karyotype and Turner Karyotype	S	SH	N	Bedside clinics, Skills lab	log book		General Medicine, Obstetrics & Gynaecology	
PE32.9	Discuss the referral criteria and multidisciplinary approach to management of Turner Syndrome Objective :-After the session student will be able to Discuss the referral criteria of Turner syndrome in detail Describe the multidisciplinary approach to management of Turner syndrome	K	KH	N	Lecture, Small group discussion	Written/ Viva voce		General Medicine, Obstetrics & Gynaecology	

PE32.10	Counsel parents regarding 1. Present child 2. Risk in the next pregnancy Objective :-After the session student will be able to Educate and counsel parents regarding present child with Turner syndrome and check their understanding Educate and counsel parents regarding in the next pregnancy and check their understanding	A/C	SH	N	Bedside clinics, Skills lab	Log book			
PE32.11	Discuss the genetic basis, risk factors, complications, prenatal diagnosis, management and genetic counselling in Klinefelter Syndrome Objective :-After the session student will be able to Describe the genetic basis, prenatal diagnosis, management and genetic counselling in Klinefelter Syndrome in detail Enumerate the risk factors, clinical features, complication in Klinefelter Syndrome	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		General Medicine	
PE32.12	Identify the clinical features of Klinefelter Syndrome Objective :-After the session student will be able to Demonstrate the clinical signs of Klinefelter Syndrome List all the clinical signs of Klinefelter Syndrome	S	SH	N	Bedside clinics, Skills lab	Log book		General Medicine	
PE32.13	Interpret normal Karyotype and recognize the Klinefelter Karyotype Objective :-After the session student will be able to Know about the normal karyotype Interpret normal Karyotype and recognize Klinefelter Karyotype accurately Differentiate between the normal karyotype and Klinefelter Karyotype	S	SH	N	Bedside clinics, Skills lab	Log book		General Medicine	
Topic: Endocrinology certification: (02)		Number of competencies: (11)			Number of procedures that require				
PE33.1	Describe the etio-pathogenesis clinical features, management of Hypothyroidism in children Objective :-After the session student will be able to Discuss the etio-pathogenesis and management of Hypothyroidism in children briefly List the clinical features of Hypothyroidism in children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			

PE33.2	Recognize the clinical signs of Hypothyroidism and refer Objective :- After the session student will be able to Identify the clinical signs of Hypothyroidism accurately Recognize the clinical signs of Hypothyroidism and refer appropriately	S	SH	Y	Bedside clinics, Skill Lab	Skill Assessment			
PE33.3	Interpret and explain neonatal thyroid screening report Objective :-After the session student will be able to Interpret the neonatal thyroid screening report accurately Interpret and explain neonatal thyroid screening report independently	S	SH	Y	Bedside clinics, Small group discussion	Skill Assessment			
PE33.4	Discuss the etio-pathogenesis, clinical types, presentations, complication and management of Diabetes mellitus in children Objective :- After the session student will be able to Discuss the etio-pathogenesis and management of Diabetes mellitus in children briefly List the clinical types, presentations and complication of Diabetes mellitus in children	K	KH	Y	Lecture, Small group discussions	Written/ Viva voce			
PE33.5	Interpret Blood sugar reports and explain the diagnostic criteria for Type 1 Diabetes Objective :-After the session student will be able to Interpret the Blood sugar reports accurately Explain the diagnostic criteria for type 1 diabetes mellitus in brief	S	SH	Y	Bedside clinic, small group activity	Skill Assessment			
PE33.6	Perform and interpret Urine Dip Stick for Sugar Objective :-After the session student will be able to Perform the Urine Dip Stick for Sugar independently Read and interpret Urine Dip Stick for Sugar accurately	S	P	Y	DOAP session	Skill Assessment	3	Biochemistry	
PE33.7	Perform genital examination and recognize Ambiguous Genitalia and refer appropriately Objective :-After the session student will be able to Perform genital examination under supervision Recognize Ambiguous Genitalia accurately Plan appropriate referral for the case of ambiguous genitalia	S	SH	Y	Bedside clinic Skills lab	Skill Assessment			

PE33.8	Define precocious and delayed Puberty Objective :-After the session student will be able to Define precocious and delayed Puberty Enumerate the difference between precocious and delayed Puberty Discuss the precocious and delayed Puberty briefly	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce			
PE33.9	Perform Sexual Maturity Rating (SMR) and interpret Objective :-After the session student will be able to Perform Sexual Maturity Rating (SMR) under supervision Perform Sexual Maturity Rating (SMR) and interpret accurately	S	SH	Y	Bedside clinics Skills Lab	Skill Assessment			
PE33.10	Recognize precocious and delayed Puberty and refer Objective :-After the session student will be able to Define precocious and delayed Puberty Identify the precocious and delayed puberty accurately Plan appropriate referral for the case of precocious and delayed puberty	S	SH	Y	Bedside clinics Skills Lab	log book			
PE33.11	Identify deviations in growth and plan appropriate referral Objective :-After the session student will be able to Identify deviations in growth accurately Plan appropriate referral for the case of any deviation in growth	S	P	Y	Bedside clinics Skills Lab	log book	2		
Topic:Vaccine preventable Diseases - Tuberculosis certification: (03)		Number of competencies: (20)				Number of procedures that require			
PE34.1	Discuss the epidemiology, clinical features, clinical types, complications of Tuberculosis in Children and Adolescents Objective :-After the session student will be able to Classify the clinical types of tuberculosis in children and Adolescents Discuss the epidemiology of tuberculosis in children and Adolescents List the clinical features and complications of Tuberculosis in Children and Adolescents	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	Respiratory Medicine

PE34.2	Discuss the various diagnostic tools for childhood tuberculosis Objective :- After the session student will be able to Discuss the various diagnostic tools for childhood tuberculosis in details Enumerate the various diagnostic methods to diagnose a case of childhood tuberculosis	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	Respiratory Medicine
PE34.3	Discuss the various regimens for management of Tuberculosis as per National Guidelines Objective :-After the session student will be able to Discuss the various regimens for management of Tuberculosis as per National Guidelines in details	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology, Community Medicine, Pharmacology	Respiratory Medicine
PE34.4	Discuss the preventive strategies adopted and the objectives and outcome of the National Tuberculosis Control Program Objective :-After the session student will be able to Discuss briefly the preventive strategies adopted in National Tuberculosis Control Program for childhood tuberculosis Describe objectives and outcome of preventive strategies adopted in National Tuberculosis Control Program in details	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology, Community Medicine, Pharmacology	Respiratory Medicine
PE34.5	Able to elicit, document and present history of contact with tuberculosis in every patient encounter Objective :-After the session student will be able to Interpret history of contact with tuberculosis in every patient encounter Able to elicit history of contact with tuberculosis in every patient encounter Document and present history of contact with tuberculosis in every patient encounter accurately	S	SH	Y	Bedside clinics, Skill lab	Skill Assessment			Respiratory Medicine
PE34.6	Identify a BCG scar Objective :-After the session student will be able to Identify a BCG scar accurately	S	P	Y	Bedside clinics, Skills lab	Skill Assessment	3	Microbiology	Respiratory Medicine
PE34.7	Interpret a Mantoux test Objective :-After the session student will be able to Read and Interpret a Mantoux test Demonstrate independently the Mantoux test Demonstrate Mantoux test accurately	S	P	Y	Bedside clinics Skills lab	Skill assessment	3	Microbiology	Respiratory Medicine
PE34.8	Interpret a Chest Radiograph Objective :-After the session student will be able to Read and Interpret a Chest Radiograph Interpret a Chest Radiograph accurately	S	SH	Y	Bedside clinics Skills lab	Skill assessment		Radiodiagnosis	Respiratory Medicine

PE34.9	Interpret blood tests in the context of laboratory evidence for tuberculosis Objective :-After the session student will be able to Interpret blood tests in the context of laboratory evidence for tuberculosis accurately Describe and Interpret laboratory evidence for tuberculosis in the context of blood tests .	S	SH	N	Bedside clinics, Small group discussion	log book		Microbiology	Respiratory Medicine
PE34.10	Discuss the various samples for demonstrating the organism e.g. Gastric Aspirate, Sputum , CSF, FNAC Objective :-After the session student will be able to Discuss the various samples for demonstrating the organism e.g. Gastric Aspirate, Sputum , CSF, FNAC in detail. Discuss the various methods to diagnosis a case of tuberculosis	K	KH	Y	Bedside clinics, Small group discussion	Written/ Viva voce		Microbiology	Respiratory Medicine
PE34.11	Perform AFB staining Objective :- After the session student will be able to Perform under supervision AFB staining	S	P	Y	DOAP session	Log book/Journal	3	Microbiology	Respiratory Medicine
PE34.12	Enumerate the indications and discuss the limitations of methods of culturing M.Tuberculi Objective :-After the session student will be able to Enumerate the indications of methods of culturing M.Tuberculi Discuss briefly the limitations of methods of culturing M.Tuberculi	K	KH	Y	Small group discussion	Written/ Viva voce		Microbiology	Respiratory Medicine
PE34.13	Enumerate the newer diagnostic tools for Tuberculosis including BACTEC CBNAAT and their indications Objective :-After the session student will be able to List the newer diagnostic tools for Tuberculosis including BACTEC CBNAAT and their indications Discuss briefly newer diagnostic tools for Tuberculosis including BACTEC CBNAAT	K	K	N	Lecture, Small group discussion	Written/ Viva voce			
PE34.14	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of fever in children Objective :-After the session student will be able to List the common causes of fever in children Discuss clinical features and complications of fever in children Discuss briefly the etiopathogenesis and management of fever in children	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	

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 Objective :-After the session student will be able to List the common causes of fever in children Discuss clinical features and complications of child with exanthematous illnesses like Measles, Mumps, Rubella & Chicken pox Discuss briefly the etiopathogenesis and management of child with exanthematous illnesses like Measles, Mumps, Rubella & Chicken pox	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	
PE34.16	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Diphtheria, Pertussis, Tetanus. Objective :-After the session student will be able to List the common causes of fever in children Discuss clinical features and complications of child with Diphtheria, Pertussis, Tetanus Discuss briefly the etiopathogenesis and management of child with Diphtheria, Pertussis, Tetanus	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	
PE34.17	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Typhoid Objective :-After the session student will be able to List the common causes of fever in children Discuss clinical features and complications of child with Typhoid Discuss briefly the etiopathogenesis and management of child with Typhoid	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	

PE34.18	<p>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</p> <p>Objective :-After the session student will be able to List the common causes of fever in children Discuss clinical features and complications of child with Dengue, Chikungunya and other vector born diseases Discuss briefly the etiopathogenesis and management of child with Dengue, Chikungunya and other vector born diseases</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	
PE34.19	<p>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</p> <p>Objective :-After the session student will be able to List the common causes of fever in children Discuss clinical features and complications of child with common parasitic infections, malaria, leishmaniasis, filariasis, helminthic infestations, amebiasis, giardiasis Discuss briefly the etiopathogenesis and management of child with common parasitic infections, malaria, leishmaniasis, filariasis, helminthic infestations, amebiasis, giardiasis</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	
PE34.20	<p>Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Rickettsial diseases</p> <p>Objective :-After the session student will be able to List the common causes of fever in children Discuss clinical features and complications of child with Rickettsial diseases Discuss briefly the etiopathogenesis and management of child with Rickettsial diseases</p>	K	KH	Y	Lecture, Small group discussion	Written/ Viva voce		Microbiology	
Topic: The role of the physician in the community certification : (NIL)		Number of competencies: (01)			Number of procedures that require				

PE35.1	<p>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) Objective :-After the session student will be able to Enumerate the medicolegal, socio-cultural and ethical issues as they pertain to health care in children (including parental rights and right to refuse treatment)</p> <p>Discuss brieflyand defend the medicolegal, socio-cultural and ethical issues as they pertain to health care in children (including parental rights and right to refuse treatment)</p>	K	KH	Y	Small group discussion	Written/ Viva voce			
<p>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</p>									