



Amala

INSTITUTE OF MEDICAL SCIENCES
NABH & NABL ACCREDITED ISO 9001: 2015

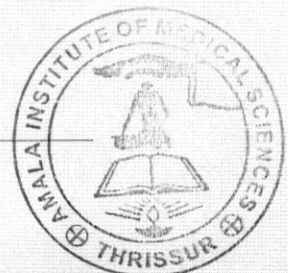
REDEFINING
CARE
everyday
in every way



DEPARTMENT OF PAEDIATRICS

Competency based
undergraduate curriculum for
MBBS students

Curriculum Plan & Lesson Plan



INDEX

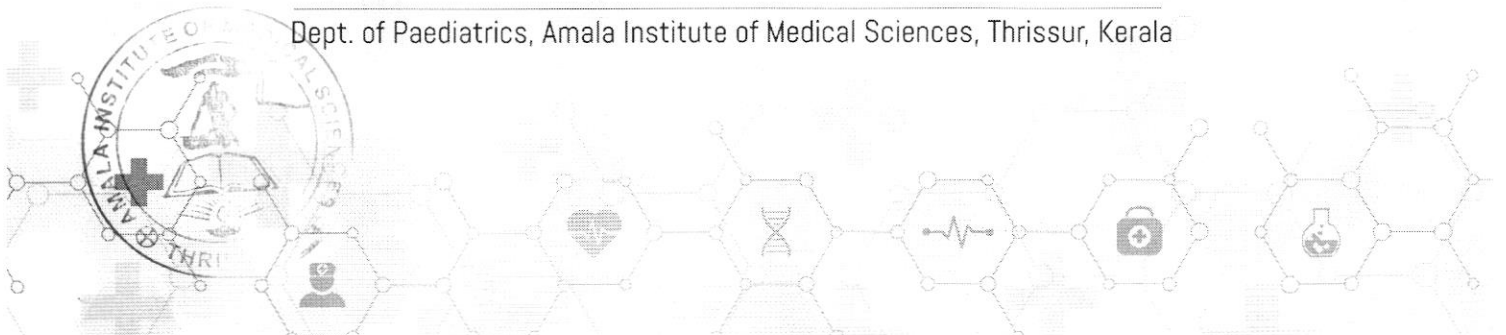
No of Topics: 35 | No of Outcomes: 406

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Compiled from Competency Based UG Curriculum- Volume 2

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Dept. of Paediatrics, Amala Institute of Medical Sciences, Thrissur, Kerala



CURRICULUM PLAN FOR THEORY CLASSES

CBME CURRICULUM PLAN PHASE-WISE: THEORY

PHASE II

1. SGD – Topics : Core Paediatrics, History Taking, GE, System Examination, Breast Feeding.
2. Phase II PCT Topics : Development, Growth, System Examinations, Immunization, Nutrition - MCQ, 50 Marks

PHASE III

Part I: 65 hours–25 Lectures, 30 SGD, 10 SDL

1. SGD–Topics : Approach to common paediatric problems
2. Theory Lecture Classes : Infectious Disease, GIT, CVS, RS.
3. SDL–Topics : Smaller topics
4. PCT Phase III Part 1 Topics : Core pediatrics (Development, Growth, Immunization, Nutrition), Infections- SAQ, 50 marks

PHASE III

Part II: 120 Hours – 30 Lectures, 60 SGD, 30 SDL

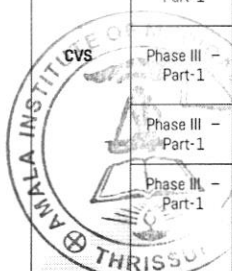
1. SGD–Topics : Common paediatric cases as theory topic
2. Lecture Classes : CVS, CNS, GIT, RESP Nephro, Neuro, Endocrine, Hemat, Onco, Rheumatology Paediatrics Emergencies / Miscellaneous, Newborn, Genetics, Health programs
3. SDL–Topics : Smaller topics
4. Phase III Part II-PCT 1 -Topics : Infectious Diseases, CVS, CNS, GIT, RESP University Model – 100 marks
5. Phase III Part II -PCT 2 –Topics : Paediatrics Emergencies / Miscellaneous, Hematopoetic system, Nephrology, Endocrine, Newborn, Genetics, Health programs, Rheumatology, – University Model 100 marks.
6. Prelims – All topics : University Model – 100 marks



LESSON PLAN PHASE-WISE FOR THEORY CLASSES

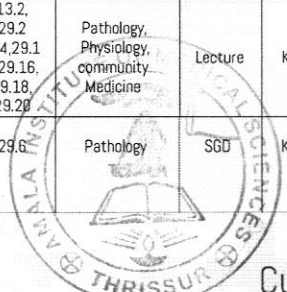
THEORY CLASS AND SDL LESSON PLAN FOR CBME MBBS CURRICULUM

System	Phase	Sl. No.	Topic	Learning Objectives	PE Number	Integration	Method	Domain /level	Suggested Assessment Tool	Faculty
Infectious diseases	Phase III – Part-1	1	Childhood tuberculosis, NTEP	Discuss the epidemiology, clinical features, clinical types, complications diagnostic tools regimens for management of Tuberculosis in Children and Adolescents	34.1 to 34.4, 34.13, 34.10	Microbiology, Respiratory Medicine, Pharmacy, Community medicine	Lecture	K/KH	Written/ Viva	Dr Jessie Jose
	Phase III – Part-1	2	Poliomyelitis/ AFP	Discuss the etio-pathogenesis, clinical features, management and prevention of Poliomyelitis in children	30.13	-	Lecture	K/KH	Written/ Viva	Dr. Jawhar
	Phase III – Part-1	SDL 1	PUO	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of fever in children Enumerate the common Rheumatological problems in children. Discuss the clinical approach to recognition and referral of a child with Rheumatological problem	34.14, 22.1	Microbiology	SGD	K/KH	Written/ Viva	Dr Jeffy
	Phase III – Part-1	3	Malaria	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of children with Common Parasitic infections	34.19	Microbiology	Lecture	K/KH	Written/ Viva	Dr.Kalyani Pillai
	Phase III – Part-1	4	HIV infection	Discuss immunization in special situations – HIV positive children, Discuss the etio - pathogenesis, clinical features, management and prevention of HIV	19.5	Microbiology	Lecture	K/KH	Written/ Viva	Dr.Riya
	Phase III – Part-1	5	Diphtheria	Discuss the etiopathogenesis, clinical features, complications, DD, and management of child with Diphtheria.	34.16	Microbiology	Lecture	K/KH	Written/ Viva	Dr.Jeffy
	Phase III – Part-1	6	Pertusis, Tetanus	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Pertussis, Tetanus.	34.16	Microbiology	Lecture	K/KH	Written/ Viva	Dr.Jeffy
	Phase III – Part-1	7	Measles	Discuss the etiopathogenesis, clinical features, complications ,DD, and management of child with exanthematous illnesses .	34.15	Microbiology	Lecture	K/KH	Written/ Viva	Dr.Arun
	Phase III – Part-1	8	Mumps, Rubella	Enumerate the common causes of fever and discuss the etiopathogenesis, clinical features, complications and management of child with Mumps, Rubella	34.15	Microbiology	Lecture	K/KH	Written/ Viva	Dr.Arun
	Phase III – Part-1	9	Hepatitis & Hepatic failure	Discuss the etio-pathogenesis, clinical features and management of acute hepatitis in children Discuss the etio-pathogenesis, clinical features and management of Fulminant Hepatic Failure in children, Hep B prevention	26.1, 26.2, 26.12	Pathology, Microbiology	Lecture	K/KH	Written/ Viva	Dr.Jessie
	Phase III – Part-1	10	Typhoid	Discuss the etiopathogenesis, clinical features, complications and management of child with Typhoid	34.17	Microbiology	Lecture	K/KH	Written/ Viva	Dr. Jawhar
Phase III – Part-1	11	Dengue fever	Discuss the etiopathogenesis, clinical features, complications and management of child with Dengue, Chikungunya and other vector born diseases	34.18	Microbiology	Lecture	K/KH	Written/ Viva	Dr.Shiji	
Phase III – Part-1	SDL 2	Helminthic infestations/Rickettsial Infections	Etiopathogenesis, clinical features, complications and management of helminthic infestations, Discuss the etiopathogenesis, clinical features, complications and management of child with Rickettsial diseases	34.19,20	Microbiology	SGD	K/KH	Written/ Viva	JR1,JR2, JR3/ Dr Jeffy	
GIT& liver disorders	Phase III – Part-1	12	Cirrhosis Liver and Portal hypertension	Discuss the etio-pathogenesis, clinical features and management of chronic liver diseases in children Discuss the etio -pathogenesis, clinical features and management of Portal Hypertension	26.3, 26.4	Pathology, Microbiology	Lecture	K/KH	Written/ Viva	Dr.Kalyani Pillai
	Phase III – Part-1	SDL 3	Common surgical conditions of abdomen and Genitourinary system	Recognize common surgical conditions of the abdomen and genitourinary system and enumerate the indications for referral	21.14	PG	SGD	K/KH	Written/ Viva	JR1,JR2, JR3/ Dr Jiya
	Phase III – Part-1	13	Malabsorption syndrome	Discuss the etio-pathogenesis, clinical presentation and management of Malabsorption in Children including celiac disease	25.1	Pathology	Lecture	K/KH	Written/ Viva	Dr.Sunil Menon
Phase III – Part-1	14	CCHD	Discuss the Hemodynamic changes clinical presentation, complications and management of Cyanotic Heart Diseases – Fallot's Physiology	23.2	Pathology	Lecture	K/KH	Written/ Viva	Dr.Kalyani Pillai	
Phase III – Part-1	15	ACHD – VSD,	Discuss the Hemodynamic changes, clinical presentation, complications and management of Acyanotic Heart Diseases –VSD, ASD and PDA	23.1	Physiology, Pathology	Lecture	K/KH	Written/ Viva	Dr.Jeffy	
Phase III – Part-1	16	ASD, PDA	Discuss the Hemodynamic changes, clinical presentation, Complications and management of Acyanotic Heart Diseases –VSD, ASD and PDA	23.1	Physiology, Pathology	Lecture	K/KH	Written/ Viva	Dr Arun	
Phase III – Part-1	17	Rheumatic fever & RHD	Discuss the etio-pathogenesis, clinical presentation and management, prevention of Acute Rheumatic Fever	23.4, 23.5	Physiology, Pathology	Lecture	K/KH	Written/ Viva	Dr Arun	
Phase III – Part-1	18	C.C.F	Discuss the etio-pathogenesis, clinical presentation and management of cardiac failure in infant and children Develop a treatment plan and prescribe appropriate drugs including fluids in cardiac diseases	23.3, 23.11	-	Lecture	K/KH	Written/ Viva	Dr.Alka	



	Phase III – Part-1	SDL 4	Hypertension (Cardiac/Renal)	Describe the etiopathogenesis, grading, clinical features and management of hypertension in children	21.17	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Parvathy Menon
	Phase III – Part-1	SDL 5	Pediatric ECG	Interpret Pediatric ECG	23.14	Dr Alka	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Alka
	Phase III – Part-1	SDL 6	Infective Endocarditis	Discuss the etio-pathogenesis, clinical features and management of Infective endocarditis in children	23.6	Physiology, Pathology, Microbiology	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr. Arun
Respiratory System	Phase III – Part-1	19	Pneumonias in children	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of lower respiratory infections including Pneumonia	28.18	-	Lecture	K/KH	Written/ Viva	Dr. Jiya
	Phase III – Part-1	20	Suppurative lung diseases	Describe the etio-pathogenesis, diagnosis, clinical features, management of suppurative lung diseases including empyema	28.18	-	Lecture	K/KH	Written/ Viva	Dr Jawhar
	Phase III – Part-1	21	Bronchial Asthma	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of asthma in children. Discuss the DD of wheeze in children.	28.19, 31.5	Respiratory medicine	Lecture	K/KH	Written/ Viva	Dr Sunil Menon
	Phase III – Part-1	SDL 7	Atopic dermatitis, Allergic rhinitis, urticaria	Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis, Atopic dermatitis, Urticaria, Angioedema in Children	31.1, 31.2, 31.3, 31.4, 31.12	ENT	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Parvathy Menon
	Phase III – Part-1	SDL 8	Treatment plan for asthma, Counsel on correct use of inhalers	Develop a treatment plan for Asthma appropriate to clinical presentation & severity. Counsel the child with asthma on the correct use of inhalers	31.7, 28.20	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Jessie
	Phase III – Part-1	SDL 9	URTI – Epiglottitis, ALT B, AOM	Discuss the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM) Epiglottitis, Acute laryngo - trachea-bronchitis	28.4, 28.5, 28.6	ENT	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Shiji
	Miscellaneous/ Emergencies	Phase III – Part-1	SDL 10	Snake bite	Discuss the common types, clinical presentations and management of poisoning in children	27.8	Forensic Medicine	SGD	K/KH	Written/ Viva
Phase III – Part-1		SDL 11	Iodine deficiency/ National goiter control program	Discuss the RDA, dietary sources of Iodine and their role in Health and disease. Describe the causes, the clinical features, diagnosis and management of deficiency of Iodine, National Goiter Control program and their recommendations	13.7-13.10	Pharmacology ENT	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Riya

	Phase III – Part-1	SDL 12	Oxygen therapy in pediatric emergency and modes of administration	Discuss oxygen therapy, in Pediatric emergencies and modes of administration	27.9	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Parvathy Menon
	Phase III – Part-1	SDL 13	Poisoning (Paracetamol, Kerosene, organophosphate, Lead)	Discuss the risk factors, clinical features, diagnosis and management of Lead Poisoning, Kerosene ingestion, paracetamol poisoning, Organophosphorous poisoning	14.1-14.4	Pharmacology	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Parvathy Menon
CNS	Phase III – Part-II	22	Epilepsy & status epilepticus	Define epilepsy. Discuss the pathogenesis, clinical types, presentation and management of Epilepsy, status Epilepticus in children	30.8, 30.9	Pharmacology ENT	Lecture	K/KH	Written/ Viva	Dr Riya
	Phase III – Part-II	23	Meningitis, Encephalitis	Etiopathogenesis, clinical features, complications, management and prevention of meningitis in children. Distinguish bacterial, viral and tuberculous meningitis	30.1, 30.2	Microbiology	Lecture	K/KH	Written/ Viva	Dr. Jessie
	Phase III – Part-II	24	Floppy baby	Enumerate the causes of floppiness in an infant and discuss the clinical features, differential Diagnosis and management	30.12	-	Lecture	K/KH	Written/ Viva	Dr Arun
	Phase III – Part-II	25	Infantile hemiplegia, DMD	Discuss the etio-pathogenesis, clinical features and management of Duchene muscular dystrophy & Infantile hemiplegia	30.14, 30.6	-	Lecture	K/KH	Written/ Viva	Dr. Jiya
	Phase III – Part-II	SDL 14	Hydrocephalus	Discuss the etio-pathogenesis, classification, clinical features, complication and management of Hydrocephalus in children	30.3	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Parvathy R
	Phase III – Part-II	SDL 15	Approach to and management of child with Head ache	Discuss the approach to and management of a child with headache	30.16	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Jeffy
	Phase III – Part-II	26	Ataxia in children	Discuss the etio-pathogenesis, clinical features, and management of ataxia in children	30.15	-	SGD	K/KH	Written/ Viva	Dr. Parvathy Menon
	Phase III – Part-II	SDL 16	Microcephaly, Macrocephaly	Discuss the etio-pathogenesis, classification, clinical features, and management of Microcephaly and macrocephaly in children	30.3, 30.4	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Parvathy Menon
	Haemopoietic system	Phase III – Part-II	27	Anemia in children (HS, ID, Thalassemia)	Discuss the etio-pathogenesis, clinical features, diagnosis and management of Iron Deficiency anaemia, Hemolytic anaemia, Thalassemia Major, Hereditary spherocytosis. Peripheral smear, Hb electrophoresis, splenectomy.	13.2, 29.2, 29.4, 29.15, 29.16, 29.18, 29.20	Pathology, Physiology, community Medicine	Lecture	K/KH	Written/ Viva
Phase III – Part-II		SDL 17	Bleeding disorders, ITP	Discuss the cause of thrombocytopenia in children; describe the clinical features and management of Immune Thrombocytopenic Purpura (ITP)	29.6	Pathology	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Sunil Menon



	Phase III – Part-II	28	Bleeding and Coagulation disorders, Hemophilia	Discuss the etiology, classification, pathogenesis and clinical features of Hemophilia in children	29.7	Pathology	Lecture	K/KH	Written/ Viva	Dr Sunil Menon
Disorders of kidney	Phase III – Part-II	29	Renal failure (acute and chronic)	Enumerate the etio-pathogenesis, clinical features, complications and management of Acute Renal Failure in children, Chronic Renal Failure in Children	21.5, 21.6	Pathology	Lecture	K/KH	Written/ Viva	Dr.Jiya
	Phase III – Part-II	SDL 18	PSGN	Enumerate the etio-pathogenesis, clinical features, complications and management of acute post-streptococcal Glomerular Nephritis in children	21.2	Pathology	SGD	K/KH	Written/ Viva	JR1,JR2, JR3/ Dr Jeffy
	Phase III – Part-II	30	Urinary tract infection	Enumerate the etio-pathogenesis, clinical features, complications and management of Urinary Tract infection in children	21.1	Microbiology	Lecture	K/KH	Written/ Viva	Dr. Kalyani
Endocrine disorders	Phase III – Part-II	31	Diabetes mellitus	Discuss the etio-pathogenesis, clinical types, presentations, complication and management of Diabetes mellitus in children Interpret Blood sugar reports and explain the diagnostic criteria for Type 1 Diabetes	33.4, 33.5	Biochemistry	Lecture	K/KH	Written/ Viva	Dr Sunil Menon
	Phase III – Part-II	32	Thyroid	Describe the etio-pathogenesis clinical features, management of Hypothyroidism in children Interpret and explain neonatal thyroid screening report	33.1,33.2, 33.3	Biochemistry	Lecture	K/KH	Written/ Viva	Dr Riya
	Phase III – Part-II	33	Atypical Genitalia	Recognize and approach to Atypical Genitalia and refer appropriately	33.7	-	Lecture	K/KH	Written/ Viva	Dr.Jiya
	Phase III – Part-II	SDL 19	Precocious & delayed puberty,	Define precocious and delayed Puberty, Sexual Maturity Rating (SMR)	33.8, 9	-	SGD	K/KH	Written/ Viva	JR1,JR2,JR3/ Dr Parvathy
Rheumatology	Phase III – Part-II	34	SLE	Enumerate the common Rheumatological problems in children. Discuss the clinical approach to recognition and referral of a child with Rheumatological problem, Describe the diagnosis and management of common vasculitic Disorders SLE	22.3, 22.1	-	Lecture	K/KH	Written/ Viva	Dr Shiji
	Phase III – Part-II	35	JIA	Describe the diagnosis and management of common vasculitic disorders including JIA	22.3	-	Lecture	K/KH	Written/ Viva	Dr Shiji
	Phase III – Part-II	36	KD	Describe the diagnosis and management of common vasculitic disorders including Kawasaki Disease	22.3	-	Lecture	K/KH	Written/ Viva	Dr Shiji
	Phase III – Part-II	SDL 20	HSP, MISC	Describe the diagnosis and management of common vasculitic disorders including Henoch Schonlein Purpura	22.3	-	SGD	K/KH	Written/ Viva	JR1,JR2,JR3/ Dr Shiji

Malignancies in children	Phase III – Part-II	SDL 21	Solid tumour	Enumerate the etio-pathogenesis, clinical features, complications and management of solid tumor and its DD including Wilms tumor	21.7	-	SGD	K/KH	Written/ Viva	JR1,JR2, JR3/ Dr Jawhar
	Phase III – Part-II	37	Lymphomas	Discuss the etiology, clinical presentation and management of lymphoma in children	29.9	Pathology	Lecture	K/KH	Written/ Viva	Dr.Nanda kumar
	Phase III – Part-II	38	Leukemias	Discuss the etiology, clinical presentation and management of Acute Lymphoblastic Leukemia in children	29.8	Pathology	Lecture	K/KH	Written/ Viva	Dr.Nanda kumar
Newborn	Phase III – Part-II	SDL 22	Haemorrhagic Disease of New born	Discuss the etiology, clinical features and management of Hemorrhagic disease of New born	20.10	-	SGD	K/KH	Written/ Viva	JR1,JR2, JR3/ Dr.Kalyani
	Phase III – Part-II	39	Neonatal Sepsis	Discuss the etiology, clinical features and management of Neonatal Sepsis.	20.16	-	Lecture	K/KH	Written/ Viva	Dr.Jaw har
	Phase III – Part-II	40	Birth Asphyxia	Discuss the etiology, clinical features and management of Birth Asphyxia	20.7	-	Lecture	K/KH	Written/ Viva	Dr Sr.Julia
	Phase III – Part-II	41	Preterm, free radical and oxygen toxicity	Discuss the clinical characteristics, complications and management of Low birth weight (preterm and Small for gestation) Discuss the risk factors, clinical features, diagnosis and management of Oxygen toxicity	20.11, 14.5	-	Lecture	K/KH	Written/ Viva	Dr Sr.Julia
	Phase III – Part-II	42	SGA	Discuss the clinical characteristics, complications and management of Low birth weight (preterm and Small for gestation) and respiratory distress in New born	20.11,	-	Lecture	K/KH	Written/ Viva	Dr Sr.Julia
	Phase III – Part-II	43	RDS (TTNB, MAS)	Discuss the etiology, clinical features and management of respiratory distress in New born including meconium aspiration and transient tachypnoea of newborn	20.8	-	Lecture	K/KH	Written/ Viva	Dr. Jiya
	Phase III – Part-II	44	Neonatal seizures	Discuss the etiology, clinical features and management of Neonatal seizures	20.15	-	Lecture	K/KH	Written/ Viva	Dr. Sr.Julia
	Phase III – Part-II	SDL 23	Prenatal diagnosis and Treatment	Discuss the genetic basis, risk factors, prenatal diagnosis, management and genetic counselling in Turner's, Down's Syndrome	32.6,32.1	Anatomy, General Medicine, OBS	SGD	K/KH	Written/ Viva	JR1,JR2, JR3/ Dr Kalyani
	Phase III – Part-II	SDL 24	Congenital Malformation and neural tube defects	Enumerate the Neural tube defects. Discuss the causes, clinical features, types, and management of Neural Tube defect	30.5	-	SGD	K/KH	Written/ Viva	JR1,JR2, JR3/ Dr Riya
	Phase III – Part-II	SDL 25	Neonatal surgical conditions	Identify clinical presentations of common surgical conditions in the new born and management of the same.	20.20	surgery	SGD	K/KH	Written/ Viva	JR1,JR2, JR3/ Dr Jessie
Phase III – Part-II	SDL 26	Physiology of lactation, Composition of breast milk, technique of breast feeding	Explain the physiology of lactation, composition and types of breast milk and differences between cow's milk and Human milk, advantages of breast milk, the correct technique of breast feeding	7.2, 7.3, 7.5	-	SGD	K/KH	Written/ Viva	JR1,JR2, JR3/ Dr Sunil	

	Phase III – Part-II	SDL 27	Complimentary feeding, IYCF	Define the term Complementary Feeding, Discuss the principles, the initiation, attributes, frequency, techniques and hygiene related to Complementary Feeding including IYCF, common complimentary foods	8.1, 8.2, 8.3	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Jeffy
	Phase III – Part-II	SDL 28	Counseling mothers for breast feeding/ Complimentary feeding/SAM & MAM/ Immunisation	Educate and counsel mothers for best practices in Breastfeeding, Complimentary Feeding, with SAM and MAM	7.9, 8.5, 10.5	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Jiya
	Phase III – Part-II	SDL 29	Identify and stratify risk in a sick neonate using IMNCI guidelines	Identify and stratify risk in a sick neonate using IMNCI guidelines	20.18	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Parvathy R
	Phase III – Part-II	SDL 30	Neonatal hypoglycemia, hypocalcemia, hypothermia	Discuss the temperature regulation in neonates, clinical features and management of Neonatal Hypothermia, Hypoglycemia, etiology, clinical features and management of Neonatal hypocalcemia	20.13, 20.14, 20.12, 27.24-27.27	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Arun
	Phase III – Part-II	SDL 31	NRP	Neonatal resuscitation	20.3	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Julia
Developmental Paediatrics	Phase III – Part-II	45	Intellectual disabilities	Define, enumerate and discuss the causes of developmental delay and disability including intellectual disability in children, mental retardation	3.1, 30.10	-	Lecture	K/KH	Written/ Viva	Dr Parvathy, R
	Phase III – Part-II	SDL 32	Behavioral abnormalities, ADHD, LD, Autism	causes and approach to a child with scholastic backwardness, Discuss the etiology, clinical features, diagnosis and management of a child with Learning Disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism	4.1 to 4.4	Psychiatry	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Riya
	Phase III – Part-II	SDL 33	Child Abuse	Discuss the common causes, clinical presentation, medico-legal implications of abuse, confidentiality with regard to abuse, signs of abuse, Sexual drug abuse in adolescents and children	27.29, 27.30, 27.31-27.35, 6.13	-	Lecture	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Jawhar
	Phase III – Part-II	SDL 34	Enuresis, Encopresis	Discuss the etiology, clinical features and management of Enuresis, Encopresis	5.8, 5.9	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Shiji
	Phase III – Part-II	SDL 35	Adolescent Nutrition, Common nutritional problems, eating disorders	Explain the Adolescent Nutrition and common nutritional Problems, eating disorders (Anorexia Nervosa, Bulimia), obesity and other NCD in adolescence	6.5, 6.6, 6.13	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Jessie

Genetics	Phase III – Part-II	46	Chromosomal disorder (down's syndrome)	Discuss the genetic basis, risk factors, clinical features complications, prenatal diagnosis, management and genetic counselling in Down's Syndrome, referral criteria and Multidisciplinary approach to management	32.1 to 32.5	-	Lecture	K/KH	Written/ Viva	Dr. Riya
	Phase III – Part-II	SDL 36	Obesity	Describe the common etiology, clinical features and management of obesity in children, risk approach for obesity and discuss the prevention	11.1-11.2	Physiology, Pathology, Biochemistry	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr. Sunil
	Phase III – Part-II	SDL 37	Klinefelter's syndrome, Turner's syndrome	Discuss the genetic basis, risk factors, clinical features, complications, prenatal diagnosis, management, referral and genetic counselling in Turner's Syndrome, Klinefelter Syndrome	32.6 - 32.13	General Medicine	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Kalyani Pillai
National health programmes	Phase III – Part-II	SDL 38	NHM	State the outline the goals, strategies and plan of action of NHM and other important national programs pertaining to maternal and child health including RMNCH A+, RBSK, RKSK, JSSK mission Indradhanush and ICDS. Analyse the outcomes and appraise the monitoring and evaluation of NHM	17.1, 17.2	Community medicine.	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Jiya
	Phase III – Part-II	SDL 39	Immunisation in special circumstances	Discuss immunization in special situations – HIV positive children, immunodeficiency, pre-term, organ transplants, those who received blood and blood products, splenectomised children, adolescents, travellers	19.5	-	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Parvathy Menon
	Phase III – Part-II	SDL 40	RCH	List and explain the components, plan, outcome of Reproductive Child Health (RCH) program and appraise its monitoring and Evaluation, Explain preventive interventions for child survival and safe motherhood, Morbidity and mortality in under 5	18.1, 18.2, 27.1	Community Medicine, OBS	SGD	K/KH	Written/ Viva	JR1, JR2, JR3/ Dr Jawhar



AETCOM AND INTEGRATION

<ul style="list-style-type: none"> ● AETCOM Module – 3 sessions (9 hours) Topic AETCOM 4.9- 0Medical negligence and malpractice 	
<ul style="list-style-type: none"> ● Integrated Teaching Module – 5 sessions (15 hours) 	
Topics	Linker case
a) Neonatal Jaundice (20.19)	- Mrs. Devi (mother of baby, who has pallor. Newborn baby has jaundice)
b) Tuberculosis (34.1 – 34.12)	- Mr. Rajesh (uncle of patient, who has TB, 4 year old child lives in same house)
c) Obesity (6.12,11.1-11.6)	- Mrs. Susan (grandmother of patient, who has hypertension and 8 year old child has obesity)
d) Cerebral palsy (30.11,3.8)	- Ms Kavitha (elderly primi with DM and 6 year old child with global developmental delay)
e) Thyroid (33.1,2,3)	- Mr. Naveen(uncle of 10 year old child with acquired hypothyroidism)

Other Integration Topics

1. Perform AFB staining (PE 34.11)- DOAP- Microbiology
2. Antenatal examination of women and antenatal care(PE 18.3), Intranatal care and conduct of normal delivery in a simulated environment/observe (PE 184,18.5)- DOAP Obstetrics and Gynecology
3. Observe implementation of RCH program by visiting rural health centre(PE 18.8), Participate in National/sub national immunization days(PE 19.8)- Community medicine

Non core topics- for self learning

SL No	Competency Number	Topic
1	5.1- 5.7, 5.10	Common problems related to behavior- thumb sucking, feeding problems, nail biting, breath holding spells, temper tantrums, pica, fussy infant, referral criteria
2	35.1	Identify, discuss and defend medicolegal, socio-cultural and ethical issues as they pertain to health care in children (including parental rights and right to refuse treatment)

CURRICULUM PLAN FOR CLINICAL POSTING

CBME CURRICULUM PLAN PHASE-WISE: CLINICAL POSTING

PHASE II – 4 weeks

SGD : 1 hour, DOAP/Bedside clinicism : 3 hours.

1. SGD on paediatric history taking & examination
2. Certifiable Competencies (14, 1.7, 11.5, 19.6, 34.6 as given in log book)
3. Home Assignment – Topic (Anthropometry/Growth / Immunization)
4. Endposting – OSCE (5 stations x 4 marks)

PHASE III PART I – 4 weeks

SGD :1 hour, Bedside discussion/DOAP/Skill Lab : 3 hours

1. Morning SGD (5 marks + 5 marks)
2. Skill Lab – BLS, RT insertion, IV Cannulation, Interosseus Line
3. LDM – 2 cases (10 marks + 10 marks)
4. Library – Guidelines (Eg: Asthma, DM)
5. Museum (4 – Nutrition, Vaccine, Drugs, Instruments)
6. Endposting - Core Paediatrics Case (PCT 1 Practical)
7. Endposting – OSCE (5 stations – 4 system paediatrics + 1 Skill lab station) (4 x 5 marks)

PHASE III PART II – 5 weeks

SGD 1 & 2 : 2 hours, Bedside discussion : 3 hours

1. Morning SGD (5 marks + 5 marks)
2. Skill Lab – NRP
3. Certifiable Competencies(7.5, 24.15-24.17, 24.15, 27.16 - 27.23, 27.28, 33.11, 34.7 as given in Log book)
4. LDM – 2 cases (1 new born + 1 paediatrics) (10 + 10 marks)
5. Research – Journal discussion- Research Study from Recent Journals (from IP/IJPP/ADC/Pediatrics).
6. Endposting -Paediatrics Case taking (PCT 2 Practical)
7. Endposting – OSCE (6 stations – 1 communication + 1 Anthropometry + 1 Physical sign elicitation + 1 Image based +1 New born + 1 Skill lab station) (6 x 5 marks)



LESSON PLAN FOR CLINICAL POSTING PHASE II

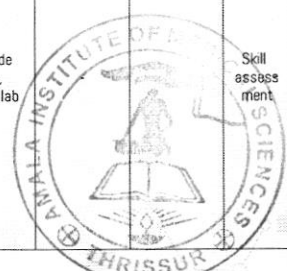
CLINICAL POSTING AND LESSON PLAN FOR CBME MBBS CURRICULUM PHASE II

Sl. No.	Topic	Session I SGD/ 9am to 10.00 am	SGD Learning Objectives	Domain/ Level	Student activity 10.00am to 10.45am	Session II 10.45am to 12noon / Competency number/	Lesson plan	Domain/ Level	Teaching Learning methods	Integration	CC/ Log book entry	Asses-ment	Faculty
1.	Paediatric History Taking		History of present illness, past history, antenatal, natal, postnatal history	K/KH	Each student to take a patient's history in the format taught		Elicit, document and present a history	S/SH	Bedside Clinics			Written/ Viva voce	Dr Menon N K Sunilkumar
2.	General Examination - I	23.9	How to conduct general examination and interpretation of the various parameters	K/KH	Each student to take a patient's history and do general examination in a patient	23.9	Record pulse, blood pressure, temperature and respiratory rate and interpret as per the age	S/SH	Bedside Clinics/ Skills lab			Skill Assessment	Dr.Parvathy Menon
3.	General Examination - II	23.9	How to identify external markers of a disease on head to foot examination	K/KH	Each student to take a patient's history and do general examination and head to foot examination in a patient	23.9	Look for markers of various diseases on head to foot examination	S/SH	Bedside clinics,			Skill Assessment	Dr.Jessie Jose
4.	Growth & Anthropometry - I	1.1, 1.2, 1.3	Define the terminologies. Discuss the factors affecting normal growth and development. Describe the patterns of growth in infants, children and Adolescents Discuss and describe the methods of assessment of growth. Enumerate the parameters used for assessment of physical growth in infants, children and adolescents	K/KH	Each student to take a patient's history and do anthropometric assessment	1.4	Perform Anthropometric measurements, document in growth charts and interpret	S/P	Bedside Clinics	Psychiatry	1.4- Perform Anthropometric measurements, document in growth charts and interpret	Document in Log book	Dr.Arun

5.	Growth & Anthropometry - II	1.1, 1.2	Define the terminologies. Discuss the factors affecting normal growth and development. Describe the patterns of growth in infants, children and Adolescents Discuss and describe the methods of assessment of growth. Enumerate the parameters used for assessment of physical growth in infants, children and adolescents	K/KH	Each student to take a patient's history and do anthropometric assessment	1.4	Perform: Anthropometric measurements, document in growth charts and interpret	S/P	Bedside Clinics	Psychiatry	1.5- Calculate BMI, document in BMI chart and interpret	Document in Log book	Dr. Arun
6.	Development	1.5, 1.6	Define development and discuss the normal developmental milestones with respect to motor, behavior, social, adaptive and language Discuss the methods of Assessment of development	K/KH	Each student to take a development history of the patient	1.7	Perform Developmental assessment and interpret	S/P	Bedside Clinics	Psychiatry	1.7- Perform Developmental assessment and interpret	Document in Log book	Dr.Riya
7.	Nutrition, Complimentary Feeding I	8.1, 8.2, 8.3	Define the term Complimentary Feeding Discuss the principles, the initiation, attributes, frequency, techniques and hygiene related to complimentary Feeding including IYCF Enumerate the common complimentary foods	K/KH	Each student to take a patient's dietary history and interpret it	8.4 8.5	Elicit history on the Complimentary Feeding habits Counsel and educate mothers on the best practices in Complimentary Feeding	AC/SH, S/SH	Bedside clinics/ DOAP	Community Medicine Biochemistry		Document in Log Book Skill Assessment	Dr Julia
8.	Nutrition II	9.1, 9.2, 9.3, 12.17, 12.18, 13.11, 13.12, 12.11 -14 12.19 -21, 13.13, 13.14	Describe the age related nutritional needs of infants, children and adolescents including micronutrients and vitamins, minerals Describe the tools and methods for assessment and classification of nutritional status. Explains the Caloric value of common Indian foods	K/KH	Each student to take a patient's dietary history and interpret it	9.4- 9.7	Elicit document and present an appropriate nutritional history and perform dietary recall. Calculate the age related calorie requirement & identify gap. Assess and classify the nutrition status. Plan an appropriate diet	S/SH	Bedside clinics	Community Medicine		Document in Log Book Skill Assessment	Dr. Jiya

9.	Breast Feeding	7.1, 7.2, 7.3, 7.4, 7.6	Explain the physiology of lactation Describe the composition and types of breast milk and discuss the differences between cow's milk and Human milk Discuss the advantages of breast milk. Awareness on the cultural beliefs and practices of breast feeding and BFHI programme	K/KH	Each student to take history of exclusive breast feeding and about problems during breast feeding	7.7, 7.8, 7.9, 7.10, 7.11	Observe the correct technique of breast feeding , Educate and counsel mothers for best practices in Breast feeding Respects patient privacy Participate in Breast Feeding Week Celebration	S/SH/P	DOAP	Physiology, Obs and Gynecology	7.5 Observe the correct technique of breast feeding	Docum -ent in Log Book Skill Assess -ment	Dr.Sr.Julia
10.	Immunization-1	19.1-19.4, 19.9, 19.15, 19.16	Explain the components of the Universal Immunization program and the National Immunization Program. Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and contraindications Define cold chain and discuss the methods of safe storage and handling of vaccines Enumerate available newer vaccines and their indications	K/KH	Each student to take history and take patient for immunization visit to immunization	19.7, 19.10, 19.12, 19.14	Observe the handling and storing of vaccines Observe the administration of UIP vaccines Practice Infection control measures and appropriate handling of the sharps	S/SH	DOAP session, Out Patient clinics	Comm - unity Medicine, Microbi - ology, Biochem - istry,	34.6- Identify a BCG scar	Docum -ent in Log Book Skill assess -ment	Dr.Jawhar
11.	Immunization-2		Describe the components of safe vaccine practice- Patient education/ counseling, adverse events following immunization, safe injection practices, documentation and Medico-legal implications Explain the term implied consent in Immunization services Enumerate available newer vaccines and their indications	K/KH	Each student to take history and take patient for immunization visit to immunization clinic	19.6, 19.11, 19.13	Assess patient for fitness for immunization and prescribe an age appropriate immunization schedule Educate and counsel a patient for immunization Demonstrate the correct administration of different vaccines in a mannequin	S/P, AC/SH	DOAP session, Skill lab	AETCOM	19.6- Assess patient for fitness for immunization and prescribe an age appropriate immunization schedule	Docum -ent in Log Book Skill assess -ment	Dr.Parvathy Menon

12.	CVS	23.7	Elicit appropriate history for a cardiac disease, analyse the symptoms , how to document and analyse general examination and CVS examination findings	S/SH	Appropriate history, identify external markers of cardiac disease , record pulse, BP,Temp & RR interpret for age, independent examination of CVS	23.8, 23.9, 23.10,	Identify external markers of a cardiac disease Perform independently examination of the cardiovascular system	S/SH	Bedside clinics, Skills lab		23.12 Interpret a chestX ray and recognize Cardiomegaly	Skill assess -ment	Dr.Kalyani Pillai
13.	RS	28.9	Elicit, document and present age appropriate history of a child with respiratory problem, analyse the symptoms , how to document and analyse general examination and RS examination findings	S/SH	appropriate history & clinical features , record chest findings and interpret, independent examination of RS system	28.10, 28.11, 28.12	Perform upper and lower respiratory tract examination	S/SH	Bedside clinics, DOAP,	ENT		Skill assess -ment	Dr.Jawhar
14.	CNS -I	30.17, 30.21	Elicit document and present an age appropriate history pertaining to the CNS Cranial nerves.	S/SH	Presentation of CNS case, document & present age appropriate CNS history, demonstrate correct methods of physical examination of cranial nerves, Identification of external CNS markers	30.18, 30.19	Demonstrate the correct method for physical examination of CNS Document and present clinical findings Analyse symptoms and interpret physical findings and propose a provisional / differential diagnosis	S/SH	Bedside clinics, Skills lab			Skill assess -ment	Dr.Jeffy



15.	CNS - II	30.17.	Elicit document and present an age appropriate history pertaining to the CNS motor sensory cerebellar system	S/SH	Presentation of CNS case, document & present age appropriate CNS history, demonstrate correct methods of physical examination of CNS. Identification of external CNS markers	30.18, 30.19	Demonstrate the correct method for physical examination of CNS Document and present clinical findings Analyse symptoms and interpret physical findings and propose a provisional / differential diagnosis	S/SH	Bedside clinics, Skills lab			Skill assessment	Dr. Jeffy
16.	GIT I	26.5, 26.6	Related to diseases of Gastrointestinal system	S/SH	History taking GIT system	26.5, 26.6	Elicit document and present the history related to GIT. Analyse symptoms	S/SH	Bedside clinics, Skills lab	Pathology		Skill Assessment	Dr. Shiji Joseph
17.	GIT II	26.7, 26.8, 29.12	Identify external markers for GI and Liver disorders Document and analyse general examination and abdomen examination findings	S/SH	Examination of GIT system	26.7, 26.8, 29.12	Perform examination of the GIT. Analyse symptoms and interpret physical signs to make a provisional / differential diagnosis	S/SH	Bedside clinics, Skills lab	Pathology		Skill Assessment	Dr. Shiji Joseph

18.	New Born Examination	20.1, 20.2, 20.4	Define the common neonatal nomenclatures including the classification and describe the characteristics Explain the care of a normal neonate Assessment of a normal neonate	K/KH	History & examination of a Newborn	20.5, 20.6	Counsel / educate mothers on the care of neonates Explain the follow up care for neonates including Breast Feeding, Temperature maintenance, immunization, importance of growth monitoring and red flags	S/SH	DDAP	Obstetrics & Gynaecology		Skill Assessment, Log book entry	Dr. Jiya
19.	CDC	3.1, 3.2, 3.5, 3.6, 4.5	Define, enumerate and discuss the causes of developmental delay and disability including intellectual disability in children. Discuss the approach to a child with developmental delay. Discuss the role of Child Guidance clinic in children with Developmental problems Discuss referral criteria	K/KH	History & examination of a child with development delay	3.3, 3.7, 4.6	Assessment of a child with developmental delay Elicit document and present history Visit a Child Developmental Unit and observe its functioning Visit to the Child Guidance Clinic	S/SH	Small group discussion	Psychiatry Community medicine Physical Medicine & Rehabilitation	3.4 Counsel parents of child with developmental delay	Log book entry	Dr. Parvathy Mohan/ Dr. Riya
20.	End posting		SAQ 50marks										
21.	End posting		OSCE										

CERTIFIABLE COMPETENCIES PHASE II

COMPETENCIES TO BE CERTIFIED IN LOGBOOK FOR CBME MBBS PHASE II

SI No.	Competency Number	Certifiable competency	Faculty
1.	1.4	Perform Anthro-pometric measurements, document in growth charts and interpret	Dr. Arun (Growth and Antropometry)
2.	11.5	Calculate BMI, document in BMI chart and interpret	Dr. Arun (Growth and Antropometry)
3.	1.7	Perform Developmental assessment and interpret	Dr. Riya (Development)
4.	34.6	Identify a BCG scar	Dr. Jawhar (Immunization - 1)
5.	19.6	Assess patient for fitness for immunization and prescribe an age appropriate immunization schedule	Dr. Parvathy Menon (Immunization -2)

LESSON PLAN CLINICAL POSTING PHASE III PART I

CLINICAL POSTING AND LESSON PLAN FOR CBME MBBS CURRICULUM PHASE III PART 1

Sl. No.	Topic	Session I SGD/ 8.00am to 9.00am	SGD Learning Objectives	Dom- ain/ Level	Integr- ation	Student activity 9.00am to 10.45 am Case taking	Session II 10.45am to 12.00noon Teaching Learning methods	Dom- ain/ Level	CC/ Log book entry	Assesment	Faculty
1	Common problems related to development disorders	3.2, 3.3, 3.4,3.6	Discuss the approach to a child with developmental delay Assessment of a child with developmental delay -Elicit document and present history, referral criteria. Counsel a parent of a child with developmental delay	K/KH	-		Bedside clinics, Skills Lab DOAP session	S/SH	3.4 counsel a parent of a child with developmental delay	Written/ Viva voce	Dr. Riya
2	Approach to a child with Proteinuria & hematuria	21.3, 21.4	Discuss the approach and referral criteria to a child with Proteinuria. Discuss the approach and referral criteria to a child with Hematuria	K/KH	Anatomy Pathology		Bedside clinics,	S/SH	-	Written/ Viva voce	Dr. Kalyani Pillai
3	Approach to common nutritional problems in Pediatrics SAM1	10.1, 10.2	Define and describe, etio-pathogenesis, classification, clinical features, complication and management of SAM, MAM Clinical approach to a child with SAM and MAM	K/KH	Physiology Bioche-mistry		DOAP, Bedside clinics	S/SH		Written/ Viva voce	Dr. Jessie
4	SAM 2	10.3, 10.4, 10.6	Assessment of a patient with SAM and MAM, diagnosis, classification and planning management including hospital and community based intervention, rehabilitation and prevention Identify children with under nutrition as per IMNCI criteria and plan referral Enumerate the role of locally prepared therapeutic diets and ready to use therapeutic diets	K/KH	Community Medicine AETCOM		Bedside clinics	S/SH	10.5 Counsel parents of children with SAM and MAM	Written/ Viva voce AETCOM	Dr. Jessie
5	Approach to a child with wheezing including Bronchiolitis and child with stridor	28.1,28.3, 28.5- 28.9, 28.13, 28.14, 28.16	Discuss the etiology, clinical features and management of Stridor in children. Discuss the etio pathogenesis, clinical features and management of Epiglottitis, ALTB, pharyngitis, tonsillitis, FB aspiration Elicit document and present age appropriate history, blood tests of a child with upper respiratory problem including Stridor	K/KH	ENT		Bedside clinics	S/SH	PE28.15 Stratify risk in children with stridor using IMNCI guidelines	Written/ Viva voce / Log book document-tation	Dr. Sunil menon

6	IMNCI Guidelines	16.1, 16.2,16.3, 17. 1	Explain the components of Integrated Management of Neonatal and Childhood Illnesses (IMNCI) guidelines and method of Risk Stratification.Outline the goals, strategies and plan of action of NHM and other important national programs pertaining to maternal and child health including RMNCH A+, RBSK, RKSK, JSSK mission Indradhenush and ICDS	K/KH	Comm-unity Medicine		DOAP session	S/SH	16.2,16.3 Assess children <2 months, >2 to 5 years using IMNCI guidelines and stratify risk	Written/ Viva voce Document in Log book	Dr. Julia
7	Care of the normal new born	20.2, 20.4	Explain the care of a normal neonate Assessment of a normal neonate	K/KH	Obstetrics & Gynaecology		DOAP session	S/SH	20.5 Counsel/ educate mothers on the care of neonates 20.6 Explain the follow up care for neonates	Log book document-tation	Dr. Jawhar
8	Diarrhoeal diseases and dehydration (ADD)	24.1, 24.2, 24.3, 24.4, 24.5, 24.9	Discuss the classification and clinical presentation of various types of diarrheal dehydration Discuss the physiological basis of ORT, types of ORS and the composition of various types of ORS.IV fluids Discuss the role of antibiotics, antispasmodics, anti-secretory drugs, probiotics, anti-emetics in acute diarrheal diseases Elicit, document and present history pertaining to diarrheal diseases	K/ KH	Pharmacology, Microbiology		Bedside clinics	S/SH	24.11 Apply the IMNCI guidelines in risk stratification of children with diarrheal dehydration and refer 24.10 Assess for signs of dehydration, document and present 24.14 Plan fluid management as per the WHO criteria	Document in Log book Skill assessment	Dr. Shiji
9	Approach to neonatal Jaundice	20.19	Discuss the etiology, clinical features and management of Neonatal hyperbilirubinemia	K/ KH			Bedside clinics	S/SH		Written/ Viva voce	Dr. Jiya/ Dr. Sreenivasan

10	Approach to edema, clinical work up	23.8	Identify external markers of a cardiac disease e.g. Cyanosis, Clubbing, dependent edema etc.	K/ KH	-			S/SH		Written/ Viva voce	Dr. Arun	
11	Approach to a child with Acute respiratory infections (ARI)	28.18, 34.5, 34.8, 34.9	Describe the etio:pathogenesis, diagnosis, Xray clinical features, management and prevention of lower respiratory infections including bronchi olitis, wheeze associated LRTI Pneumonia and empyema. elicit history of contact with TB, lab e vidence for TB	K/ KH	-		Bedside clinics,	S/SH	-	Written/ Viva voce	Dr. Sunilme non	
12	Approach to Jaundice after newborn period	29.11, 26.6, 26.8	Identify external markers for hematological disorders Identify external markers for GI and Liver disorders Analyse symptoms and interpret physical signs to make a Provisional /differential diagnosis.	K/ KH	-		Bedside clinics	S/SH	26.13 Counsel and educate patients and their family appropriately on liver diseases	Written/ Viva voce/ Document in log book	Dr. Jawhar/ Dr. Aparna	
13	CDC - Adolescence	6.1-6.4 6.7, 6.10, 5.11	Define Adolescence and stages of adolescence Discuss the general health problems during adolescence, adolescent sexuality and common problems related to it, common mental health problems during adolescence Objectives & functions of AFHS (adolescent friendly health services) and referral. Observe Child Guidance Clinic functioning	K/ KH	Psychiatry	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		6.9 6.11 6.13 DOAP	S/SH	AETCOM 6.8 Respecting patient privacy and maintaining confidentiality while dealing with adolescence	Written/ Viva voca/ Log book Entry	Dr. Riya
14	Approach to a child with arthritis	22.1, 22.3	Enumerate the common Rheumatological problems in children. Discuss the clinical approach to recognition and referral of a child with Rheumatological problem. Describe the diagnosis and management of common vasculitic disorders.	K/ KH	-		Bedside clinics, Skills Lab	S/SH	s	Log book	Dr. Shiji Joseph	

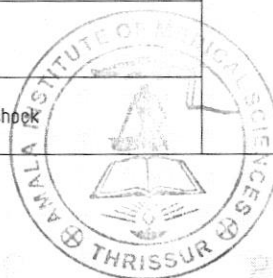
15	Approach to a child with fever with rash	34.15,34.17,34.18,34.20	Enumerate the common causes of fever and discuss the etio-pathogenesis, clinical features, complications and management of child with exanthematous illnesses	K/ KH	Microbiology		Bedside clinics	S/SH	-	Written/ Viva voce	Dr. Jeffy
16	Care of the high risk newborn/ BFHI	20.11, 20.9, 20.17	Discuss the clinical characteristics, complications and management of Low birth weight (preterm and Small for gestation). Approach to birth injuries, perinatal infections	K/ KH	-		DOAP session	S/SH	20.18 Identify and stratify risk in a sick neonate using IMNCI guidelines	Document in Log Book	Dr.sr.Julia
17	Common surgical conditions in pediatrics-	21.14	Recognize common surgical conditions Undescended testes, Phimosis, cleft lip, cleft palate, Tracheo esophageal fistula, Congenital diaphragmatic Hernia.	K/ KH	General Surgery		Bedside clinics	S/SH		Written/ Viva voce	Dr. Jiya
18	Approach to common problems related to growth	2.1 2.2,2.6	Discuss the etio-pathogenesis, clinical features and management of a child who fails to thrive Assessment of a child with failing to thrive including eliciting an appropriate history, referral criteria and examination	K/KH	AETCOM		OSPE	A/C S/SH	2.3Counseling a parent with failing to thrive child	Document in Log Book	Dr.Arun
19	Approach to Hepatosplenomegaly	26.5, 26.7, 26.9, 26.10, 29.14	Elicit document and present the history, Perform examination of the abdomen, demonstrate organomegaly, ascites etc. related to diseases of Gastrointestinal system, Interpret LFT, USG	K/KH			Bedside clinics DOAP	S/SH	26.10 DOAP Demonstrate liver biopsy in a simulated environment	Document in Log Book	Dr. Sunil-Menon
20	Approach to a child with seizures	30.7 30.8	clinical features, complications and management of Febrile seizures & Epilepsy in children	K/KH			Bedside clinics	S/SH			Dr.Jeffy
21	Approach to purpura, bleeding and coagulation	29.6 29.7 29.10 29.13	Discuss the causes and clinical features of thrombocytopenia & coagulation disorders in children. Elicit, document and present the history related to Hematology Analyse symptoms and interpret physical signs to make a provisional/differential diagnosis	K/KH			Bedside clinics, DOAP	S/SH		Document in Log Book	Dr.Kalyani Pillai

22	Skill Lab -1 (BLS)	27.16 27.17, 27.18, 27.2, 27.7,27.28	Assess emergency signs and prioritize. Management of cardiorespiratory arrest, unconscious child in Emergency. Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate environment Assess airway and breathing: perform assisted ventilation by Bag and mask in a simulated environment Provide BLS for children in manikin	K/KH			DOAP session, Skills Lab	S/SH	27.16 27.17, 27.18 27.28	Document in Log Book	P2 unit
23	Skill lab -2 (RT insertion, IO)	24.15 24.17 27.21	Perform NG tube insertion in a manikin. Perform Intra osseous insertion model Choose the type of fluid and calculate the fluid requirement in shock	K/KH			DOAP session, Skills Lab	S/SH	24.15 24.17 27.21	Document in Log Book	P1 unit
24	END-POSTING EXAMINATION-	CASE PRESENTATION (core pediatrics)									
25	END-POSTING EXAMINATION-	CASE PRESENTATION (core pediatrics) + 5 OSCE (system+skill lab)									

SKILL LAB PHASE III PART I

COMPETENCIES TO BE CERTIFIED IN LOGBOOK FOR CBME MBBS PHASE III PART 1- SKILL LAB

Sl No.	Competency Number	Certifiable competency	Faculty
1.	27.16	Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment	Dr Parvathy in charge
2.	27.17	Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate environment	
3.	27.18	Assess airway and breathing: perform assisted ventilation by Bag and mask in a simulated environment	
4.	27.28	Provide BLS for children in manikin	
5.	24.15	Perform NG tube insertion in a manikin	
6.	24.17	Perform Intra osseous insertion model	
7.	24.21	Choose the type of fluid and calculate the fluid requirement in shock	



LESSON PLAN CLINICAL POSTING PHASE III PART II

CLINICAL POSTING AND LESSON PLAN FOR CBME MBBS CURRICULUM PHASE III PART II

Sl. No.	Topic	SGD I competency 9.00am to 10.00 am	SGD II Competency 12 noon to 1.00pm	Learning objectives	Dom-ain/Level	Student activity 10.00am to 10.45 am	Bedside discussion 10.45am to 12.00 noon	Dom-ain/Level	Integ-ration	CC/Log book entry	Asses-ment	Faculty
1.	New-born (Antenatal, Natal, Post Natal) - I & II	20.4,5,6 20.11, 18.6, 18.7	7.5	Assessment of a normal neonate Counsel / educate mothers on the care of neonates. Explain the follow up care for neonates including Breast Feeding, weaning, Temperature maintenance, immunization, importance of growth monitoring and red flags. Discuss the clinical characteristics, complications and management of Low birth weight (preterm and Small for gestation)	K/KH	Case taking	Bedside clinics, Skills Lab	S/SH	Community medicine, OBG	7.5 Observe the correct technique of breast feeding 18.7 AETCOM - educate and counsel caregivers of children	Written/ Viva voce Log book Entry	Dr.Sr.Julia
2.	Cerebral palsy - I & II	3.8, 3.1,3.3	3.4	Discuss the etio-pathogenesis, clinical presentation and multidisciplinary approach in the management of Cerebral palsy Define, enumerate and discuss the causes of developmental delay and disability including intellectual disability in children Assessment of a child with developmental delay - Elicit document and present history.Counsel a parent of a child with developmental delay	K/KH	Case taking	DOAP, Bedside clinics	S/SH	Community Medicine Physical Medicine & Rehabilitation	1.7 Perform Developmental assessment and interpret 22.2 Counsel a patient with Chronic illness 3.4 Counsel a parent of a child with developmental delay	Written/ Viva voce /Log book Entry	Dr.Riya
3.	VSD - I & II	23.1	23.12, 23.13, 23.14, 23.15 23.16, 23.17 23.18	Discuss the Hemodynamic changes, clinical presentation, complications and management of VSD Interpret a chest X ray and recognize Cardiomegaly.Choose and Interpret blood reports in Cardiac illness Interpret Pediatric ECG Use the ECHO reports in management of cases. Enumerate some common cardiac surgeries. Demonstrate empathy while dealing with children with cardiac diseases in every patient encounter	K/KH	Case taking	Bedside clinics	S/SH	Physiology, Pathology Radiology	AETCOM 23.18	Viva voce /Log book Entry 23.18 23.12, 23.13 23.14, 23.15	Dr.Kalyani Pillai

4.	Bronchial Asthma - I & II	28.19 27.10 27.4	28.20, 27.3, 31.6-31.11	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of asthma in children. Counsel the child with asthma on the correct use of inhalers in a simulated environment Observe the various methods of administering Oxyge. Describe the clinical approach and management of respiratory distress in children. Recognise signs of asthma, severity, treatment plan, PFT. Observe nebulisation	K/KH	Case taking	Bedside clinics Demonstration DOAP	S/SH	Respiratory Medicine	27.15 Assess airway and breathing; recognise signs of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting	Skill Assess- ment/ Written/ Viva voce/ Log book Entry	Dr.Sunil menon
5.	Short Stature - I & II	2.4	2.5, 2.1	Discuss the etio-pathogenesis, clinical features and management of a child with short stature. Assessment of a child with short stature: Elicit history, perform examination, document and present Enumerate the referral criteria	K/KH	Case taking	Bedside clinics	S/SH		1.4 Perform Anthro - metric measurements, document in growth charts and interpret. 33.11 Identify deviations in growth and plan appropriate referral	Viva voce/ Skill Assessment/ Log book Entry	Dr.Shiji
6.	Nephrotic Syndrome - I & II	21.3 21.9 21.16	21.11, 21.10 21.15	Discuss the approach and referral criteria to a child with Proteinuria Identify external markers for Kidney disease, like Failing to thrive, hypertension, pallor, Itchy skin, anasarca. Analyse symptom and interpret the physical findings and arrive at an appropriate provisional /differential diagnosis	K/KH	Case taking	Bedside clinics	S/SH	Pathology	21.16 AETCOM Counsel parents regarding disease / educate a patient for referral appropriately	Viva voce/ Logbook	Dr.Jessie
7.	National Immunization Programme - I & II	19.1, 19.2 19.3, 19.4	19.5 19.7, 19.16	Explain the components of the Universal Immunization Program and the National Immunization Program Explain the epidemiology of Vaccine preventable diseases Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and contraindications Define cold chain and discuss the methods of safe storage and handling of vaccines. Discuss immunization in special situations. Educate and counsel a patient for immunization. Enumerate available newer vaccines and their indications.	K/KH	Case taking	DOAP Bedside clinics	S/SH	Community medicine	19.6, Assess patient for fitness for immunization and prescribe an age appropriate immunization schedule 34.6 Identify a BCG scar 34.7 Interpret a Mantoux test	Viva voce/ Log book Entry	Dr. Jawher

8.	Shock – Fluid & Electrolyte imbalance	27.5, 27.11, 27.12, 27.13, 15.1, 15.2, 15.3, 15.4, 15.5	27.14, 27.32, 27.33, 27.34, 27.35	Describe the etio-pathogenesis, clinical approach and management of Shock in children. Explain the need and process of triage of sick children. Enumerate emergency signs and priority signs. List the sequential approach of assessment of emergency. Fluid and electrolyte requirement in health and disease. Assess emergency signs and prioritize. Counsel parents of dangerously ill / terminally ill child to break a bad news, obtain informed consent. part of ER Team, attends emergency calls promptly	K/KH	Case taking	DOAP session Bedside clinics	S/SH		27.19, Check for signs of shock i.e. pulse, Blood pressure, CRT, 27.21 Choose the type of fluid and calculate the fluid requirement in shock -	Viva voce/ Log book Entry	Dr. Parvathy
9.	ITP/HSP – I & II	29.6, 29.10, 29.11	29.12, 29.13	Discuss the cause of thrombocytopenia in children: describe the clinical features and management. Elicit, document and present the history related to Hematology. Identify external markers for hematological disorders. demonstrate organomegaly. Analyse symptoms and interpret physical signs to make a provisional/differential diagnosis	K/KH	Case taking	Bedside clinics	S/SH	Pathology	29.17 Demonstrate performance of bone marrow aspiration in manikin	Viva voce /log Book Entry	Dr. Jiya
10.	Rickets – I & II	12.6, 12.7, 12.10	12.8, 12.9	Discuss the RDA, dietary sources of Vitamin D and their role in health and disease. Describe the causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin D. Identify the clinical features of dietary deficiency of Vitamin D. Assess patients with Vitamin D deficiency, diagnose, classify and plan management. Discuss the role of screening for Vitamin D deficiency	K/KH	Case taking	Bedside clinics	S/SH	Biochemistry, Physiology Pathology		Viva voce/	Dr. Jiya

11.	Febrile seizure/ Status epilepticus I & II	27.6, 30.7, 30.8, 30.9	30.20, 30.21, 30.22, 30.23	Describe the etio-pathogenesis, clinical approach and management of Status epilepticus. Discuss Define the etio-pathogenesis, clinical features, complications and presentation management of Febrile seizures. Epilepsy in children. Interpret and explain the findings in a CSF analysis. Indication and discuss the limitations, interpretations of EEG, CT, MRI.	K/KH	Case taking	Bedside clinics Skills Lab	S/SH	Microbiology, Radio - diagnosis	27.22 Assess level of consciousness & provide emergency treatment to a child with convulsions/ coma 30.23 Perform in a mannequin lumbar puncture. Discuss the indications. Contraindication of the procedure	Viva voce/ Skill Assessment, Log book	
12.	Pneumonia/ Respiratory Infection/ARI control programme – I & II	28.18	27.4	Describe the etio-pathogenesis, diagnosis, clinical features, management and prevention of lower respiratory infections. Describe the clinical approach and management of respiratory distress in children	K/KH	Case taking	Bedside clinic DOAP session,	S/SH		27.15 Assess airway and breathing; recognize signs of severe respiratory distress.	Viva voce, Log book	
13.	National – goiter control programme & Vit. A Prophy. Programme	13.7, 13.10,	12.1, 12.2, 12.3, 12.4, 12.5	RDA, dietary sources, diagnosis and management of deficiency of Iodine, National Goiter Control program and their Recommendations. Discuss the RDA, dietary sources of Vitamin A and their role in Health and disease, causes, clinical features, diagnosis and management of Deficiency / excess of Vitamin A	K/KH	Case taking	Bedside clinics Skills Lab	S/SH	Biochemistry		Viva voce, Log book	
14.	Acute glomerulonephritis – I & II	21.2, 21.4, 21.3	21.11, 21.12, 21.13, 21.15	Enumerate the etio-pathogenesis, clinical features, complications and management of acute post-streptococcal Glomerular Nephritis in children. Discuss the approach and referral criteria to a child with Hematuria. Perform and interpret the common analytes in a Urine examination, USG KUB, XRay KUB	K/KH	21.8 Case taking	Bedside clinics	S/SH	Biochemistry, Pathology		Viva voce Skill Assessment	



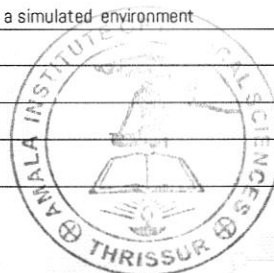
15.	ADD/ORS - I & II	24.1, 24.2	24.3 to 24.13	Discuss the etio-pathogenesis, classification, clinical presentation and management of diarrheal diseases in children ORT, types of and the composition types of fluid used and their composition ,role of antibiotics, antispasmodics, anti-secretory drugs, probiotics, anti-emetics in acute diarrheal diseases Causes, clinical presentation and management of persistent diarrhea, chronic diarrhea, dysentery in children History pertaining to diarrheal diseases signs of dehydration IMNCI guidelines in risk stratification of children with diarrhea	K/KH	Case taking	Bedside clinics	S/SH	Pathology Micro - biology Pharma-cology,	24.14 Plan fluid management as per the WHO criteria 27.23 Assess for signs of severe dehydration	Viva voce Skill Assessment	Dr.Shiji
16.	Iron Deficiency Anemia I & II	13.1,13.2, 13.3, 29.1,29.3, 29.5	13.4, 13.5, 13.6, 29.19	Approach to anemia,b12, folate deficiency, Dietary sources of Iron, causes, clinical features diagnosis,prevention and management of Fe deficiency Interpret hemogram and Iron PanelDiscuss the National anaemia control program and its recommendations	K/KH	Case taking	Bedside clinics	S/SH	Pathology Bioche - mistry Pharma-cology, Comm - unity Medicine		Written/ Viva voce Skill Assessment	Dr.Parvathy
17.	Development & Diet assessment/ Obesity - I & II	3.3, 9.4,9.5	11.1, 11.2, 11.3, 11.4, 11.5,11.6	Assessment of a child with developmental delay - Elicit document and present history Elicit document and present an appropriate nutritional history and Describe the common etiology, clinical features risk approach and management prevention of obesity in children Assessment of a child with obesity with regard to eliciting history including physical activity, charting and dietary recall calculation of BMI, measurement of waist hip ratio, identifying external markers	K/KH	Case taking	Bedside clinics Standardi zed patients videos	S/SH	Physi - ology, Pathology	1.7, Perform Developmental assessmentand interpret 11.5 Calculate BMI, document in BMI chart and interpret	Document in log book Viva voce Skill Assessment	Dr.Riya

18.	X-rays - I & II	21.12, 23.12, 28.17	31.9	X ray - KUB,Cardiomegaly, paranasal sinuses and mastoid, foreign body aspiration and lower respiratory tract infection, thymic shadow,asthma	K/KH	Case taking	Small group Discu - ssion	S/SH	Radio - diagnosis		Log book	Dr.Arun/ Dr Aparna
19.	Drugs/Vaccines - I & II	23.11, 24.5,	19.1, 19.3	Antidiarrheal, anti failure, drugs in cough,asthma Explain the components of the Universal Immunization Program and the National Immunization Program Vaccine description with regard to classification of vaccines, strain used, dose, route, schedule, risks, benefits and side effects, indications and contraindications	K/KH	Case taking	Small group Discu - ssion	S/SH	Comm - unity Medicine		Log book	Dr.Sr.Julia
20.	Skill lab P1 (NRP + IV canulation) I & II	20.3 ,	27.20, 27.21, 15.6	Perform Neonatal resuscitation in a manikin Secure an IV access in a simulated environment Choose the type of fluid and calculate the fluid requirement in shock	K/KH	Case taking	DOAP session, Skills Lab	S/SH		20.3 Perform Neonatal resuscitation in a manikin, 24.16. Perform IV cannulation in a model, 27.20, Secure an IV access in a simulated environment, 27.21 Choose the type of fluid and calculate the fluid requirement in shock	Log book, Skill Assessment	Dr.Jeffy
21.	OSCE I & II				K/KH	Case taking	Small group Discu - ssion	S/SH				Dr.Jeffy/ Dr Sreenivasan

22.	Revision - skill lab P2(BLS+RT+ IO)	27.14, 27.16,	27.17, 27.18 24.15, 24.17,15.7	Assess emergency signs and prioritize. Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate environment Assess airway and breathing: perform assisted ventilation by Bag and mask in a simulated environment Perform NG tube insertion in a manikin Perform Interosseous insertion model	K/KH	Case taking	DOAP session, Skills Lab	S/SH	24.15 Perform NG tube insertion in a manikin, 24.17 Perform Interosseous insertion model 27.16 Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment 27.17 Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate, 27.28 Provide BLS for children in manikin	Dr.Arun
23.	End Posting Day 1			CASE PRESENTATION						
24.	End Posting Day 2			CASE PRESENTATION + OSCE 5 stations+1 skill lab station						

CERTIFIABLE COMPETENCIES AND SKILL LAB PHASE III PART II COMPETENCIES TO BE CERTIFIED IN LOGBOOK FOR CBME MBBS PHASE III PART II

Sl No.	Competency Number	Certifiable competency	Faculty
1.	7.5	Observe the correct technique of breast feeding	Dr.Sr.Julia (Newborn Class)
2.	24.15	Perform NG tube insertion in a manikin	P2 Unit - skill Lab
3.	24.16	Perform IV cannulation in a model	P1 Unit - skill Lab
4.	24.17	Perform Interosseous insertion model	P2 Unit - skill Lab
5.	27.15	Assess airway and breathing: recognise signs of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting	Dr.Sunil Menon(Asthma Class), Dr.Jawhar(Pneumonia class)
6.	27.16	Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment	P2 Unit - skill Lab
7.	27.17	Assess airway and breathing: administer oxygen using correct technique and appropriate flow rate	P2 Unit - skill Lab
8.	27.18	Assess airway and breathing: perform assisted ventilation by Bag and mask	P2 Unit - skill Lab
9.	27.19	Check for signs of shock i.e. pulse, Blood pressure, CRT	Dr Parvathy S Menon(Shock class)
10.	27.20	Secure an IV access in a simulated environment	P1 Unit - skill Lab
11.	27.21	Choose the type of fluid and calculate the fluid requirement in shock	P1 Unit - skill Lab & Dr.Parvathy S Menon(Shock class)
12.	27.22	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	Dr Jeffy John (seizure Class)
13.	27.23	Assess for signs of severe dehydration	Dr Shiji (ADD Class)
14.	27.28	Provide BLS for children in manikin	P2 Unit - skill Lab
15.	33.11	Identify deviations in growth and plan appropriate referral	Dr.Shiji (Short stature class)
16.	34.7	Interpret a Mantoux test	Dr.Jawhar (Immunisation Class)







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