

ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

M.D. / M.S.

{Course Structure & Working Syllabus}

(EFFECTIVE FOR EXAMINATION TO BE HELD IN 2012)



आर्यभट्ट ज्ञान विश्वविद्यालय
ARYABHATTA KNOWLEDGE UNIVERSITY



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>ANATOMY</u>
213001	Paper I	Morphology and gross general Anatomy above diaphragm with applied and concerning embryology and histology	
213002	Paper II	Morphology and gross anatomy below the diaphragm with applied and concerning embryology and histology	
213003	Paper III	Neuro-anatomy with applied	
213004	Paper IV	Recent advances & evolution & Genetics	



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Paper Code	Paper	Subject Name	<u>PHYSIOLOGY</u>
232001	Paper I	General physiology, including History of Physiology	
232002	Paper II	Systemic physiology (system providing transport, nutrition and energy) including comparative physiology)	
232003	Paper III	System physiology including cellular physiology, regulation and neural control	
232004	Paper IV	Applied physiology including recent advances	



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Paper Code	Paper	Subject Name	<u>BIO-CHEMISTRY</u>
214001	Paper I	General Bio-chemistry, bio-statics, bio-chemical technique	
214002	Paper II	Cell physiology, molecular Biology, and Human genetics	
214003	Paper III	Intermediary metabolism, macro and micro nutrients, inborn errors of metabolism	
214004	Paper IV	Recent advances in Bio-chemistry <ul style="list-style-type: none">- Clinical Bio-chemistry- Human nutrition, endocrinology and immunology	



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Paper Code	Paper	Subject Name	<u>PATHOLGY</u>
228001	Paper I	General including special Pathology	
228002	Paper II	Systemic including chemical pathology and Histo-Pathology	
228003	Paper III	Clinical Pathology including Haematology and Blood transfusion	
228004	Paper IV	Recent advances in Pathology including comparative Pathology	



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Paper Code	Paper	Subject Name	<u>MICROBIOLOGY</u>
226001	Paper I	General Microbiology and Immunology	
226002	Paper II	Systemic Bacteriology and Mycology	
226003	Paper III	Virology and Parasitology	
226004	Paper IV	Recent advances and applied Microbiology	



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Paper Code	Paper	Subject Name	<u>PHARMACOLOGY</u>
230001	Paper I	General Pharmacology and applied Pharmacology	
230002	Paper II	Bioassay and experimental Pharmacology	
230003	Paper III	Systemic Pharmacology, Chemotherapy & Pharmacological therapeutics.	
230004	Paper IV	Recent advances in Clinical and therapeutic Pharmacology	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>FORENSIC MEDICINE (FMT)</u>
219001	Paper I	Basic science in Anatomy and Physiology and other allied subjects as applied aspect of Clinical Forensic Medicine. Basic of diseases in clinical medicines.	
219002	Paper II	Forensic Medicine including Medical jurisprudence including Clinical Forensic medicine	
219003	Paper III	Forensic Medicine including Forensic Pathology and Forensic Toxicology	
219004	Paper IV	Description of post-mortem report and recent advances in Forensic Medicine	



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Paper Code	Paper	Subject Name	<u>COMMUNITY MEDICINE (PSM)</u>
216001	Paper I	Basic & public Health Scheme, nutrition and medical & health statistics. Concept in Community Medicine & principle & practice of epidemiology.	
216002	Paper II	Epidemiology of communicable and non communicable diseases, tropical medicine, and health services management including organization and management of rural health scheme principle & practice of health administration.	
216003	Paper III	Environmental Health, occupational health, demography, family planning and maternity and child health, industrial hygiene	
216004	Paper IV	Pathology, microbiology in relation to social and preventive medicines- Recent advances social & behavioural sciences. Mental Health & Education.	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>MS - OPHTHALMOLOGY (EYE)</u>
243001	Paper I	Applied basic science (Anatomy, physiology, pharmacology, pathology) related to ophthalmology	
243002	Paper II	Diseases of eye and ocular manifestation with systemic diseases	
243003	Paper III	Operative techniques in ophthalmological surgery	
243004	Paper IV	Recent advances in Ophthalmology	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>MD - GENERAL MEDICINE</u>
220001	Paper I	Applied basic Medical Science (Anatomy, Physiology, Pathology, Microbiology and Pharmacology) Immunology National Program and preventive strategies. Impact of medical diseases on pregnancy, Dermatology & Psychiatric, Nutrition, Immune system & disease Molecular Cell biology & genetic disease.	
220002	Paper II	General Medicine a. Intensive Care Medicine b. Rheumatology & Bone Disease c. Infectious diseases, Tropical Medicines and STD d. Environmental Medicine e. Drug Therapy and Poisoning	
220003	Paper III	Systemic Disease a. GIT b. Liver, Biliary and Pancreatic Diseases c. Malignant disease d. Renal diseases e. Cardio-vascular & Respiratory diseases f. Endocrine & Diabetic and other metabolic diseases g. Neurological diseases	
220004	Paper IV	Recent advances as related to Medicine	



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Paper Code	Paper	Subject Name	<u>MS - ENT</u>
241001	Paper I	Anatomy, Physiology, Pathology, Microbiology, Biochemistry & acoustic as related to ENT	
241002	Paper II	Diseases of Ear, Nose and Throat	
241003	Paper III	Recent operative technique applied to ear, nose and throat treatment	
241004	Paper IV	Recent advances in ENT	



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Paper Code	Paper	Subject Name	<u>MS - GENERAL SURGERY</u>
242001	Paper I	Applied basic sciences in relation of General Surgery, Urology, Gastroenterology Breast, Endocrines	
242002	Paper II	General Surgery and Surgical diseases of organs above the diaphragm including pre-operative and post operative treatment	
242003	Paper III	General Surgery and Surgical diseases of organs below the diaphragm including pre-operative and post operative treatment	
242004	Paper IV	Recent advances in Surgery related to General Surgery	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>MS - ORTHOPAEDICS SURGERY</u>
244001	Paper I	Applied basic science (Anatomy, Physiology, Pathology, Pharmacology & Therapeutics) related to orthopaedic diseases and surgery	
244001	Paper II	General orthopaedic surgery & (pre & post operative management)	
244001	Paper III	General Surgery applied to orthopaedic surgery with pre & post operative management	
244001	Paper IV	Recent advances in orthopaedics	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>MS - OBSTETRICS & GYNAECOLOGY</u>
245001	Paper I	Basic Medical Science- Anatomy, Physiology, Pathology, Pharmacology etc related to Obst. & Gynae	
245002	Paper II	Gynecology	
245003	Paper III	Obstetrics	
245004	Paper IV	Recent advances related to Obst. & Gynae & community obstetrics.	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>MD - ANAESTHESIA</u>
211001	Paper I	Applied basic science, Anatomy, Physiology, Parmakinetics, Pre-medication, difficult air way- related to anaesthesia	
211002	Paper II	a) Method & technique of anaesthesia and complication with their management b) Pharmacology of drugs used in Anaesthesia. c) Pre-operative and post operative assessment and proper care of the Pt	
211003	Paper III	Clinical Anaesthesia with relation to special regime & disease complication & management.	
211004	Paper IV	Recent advances and critical case management	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>MD – PAEDIATRICS</u>
229001	Paper I	Applied Basic Science, Anatomy, Physiology & Pharmacology as related to Pediatrics.	
229002	Paper II	Social and Preventive Pediatrics neonatal disorders and child psychology.	
229003	Paper III	(a) General Medicine as applied to Pediatrics & community pediatrics. (b) Therapeutics in relation to diseases of children.	
229004	Paper IV	Recent advances in Pediatrics & community Pediatrics.	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>MD - RADIO-DIAGNOSIS</u>
234001	Paper I	Applied basic science including isotopes and Radio-Physics related to Radiology.	
234002	Paper II	Radio-diagnosis related to General Medicines and Surgery contents above the diaphragm, Bones and joints.	
234003	Paper III	General Paper in Radiology, - Radio-diagnosis of the content below the diaphragm.	
234004	Paper IV	Recent advances in Radio-diagnosis and Technique.	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>MD – SKIN & VD</u>
217001	Paper I	Basis Science of Skin, S.T.D, Leprosy (Anatomy, Physiology Biochemistry and Pharmacology.	
217002	Paper II	Disease of skin STD & Leprosy, Therapeutic in relation to diseases, of Skin.	
217003	Paper III	Histopathology of Skin, STD, Leprosy Diseases. - Dermatosurgegery Cosmetology.	
217004	Paper IV	Recent advances of skin diseases, STD&Leprosy.	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>PHYSICAL MIDICINE & REHABILITATION</u> <u>(PMR)</u>
231001	Paper I	Basis Science – Anatomy, Physiology Pathology, Pharmacology and Biochemistry as applied to Physical Medicine and Rehabilitation.	
231002	Paper II	Medical sciences applied to physical medicines & rehabilitation including surgical aspect.	
231003	Paper III	Physical Medicine, Rheumatology and Rehabilitation including recent advances.	
231004	Paper IV	Rehabilitation in specialized subjects, prosthetics, orthotics vocational guidance.	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>MD - PSYCHIATRY</u>
233001	Paper I	Psychological Medicines, chemical psychiatrics including management and therapeutics.	
233002	Paper II	Disease of Nervous system, organic psychiatry	
233003	Paper III	Pathology and pharmacology in relation to psychological medicine, psycho-pathology psychometry.	
233004	Paper IV	Anatomy and physiology in relation to psychological medicines. Basic clinical psychology are Behavioural sciences.	



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Paper Code	Paper	Subject Name	<u>MD - RADIOTHERAPY</u>
235001	Paper I	Principles of Racliation therapy- Tele therapy- Brachy-therapy Principles of Radiation Physics and their clinical application. - Radiation protection.	
235002	Paper II	Pathology and pathogenesis of Malignancies, Pathological classification, staging & their importance in treatment.	
235003	Paper III	Clinical aspects of Malignancies.	
235004	Paper IV	Recent advances in Malignancies.	



ARYABHATTA KNOWLEDGE UNIVERSITY, PATNA

Paper Code	Paper	Subject Name	<u>PLASTIC SURGERY M.CH</u>
240001	Paper I	Surgical anatomy, physiology, biochemistry, pharmacology as applied to plastic surgery.	
240002	Paper II	General Surgery as applied to plastic surgery.	
240003	Paper III	Orthopaedic surgery & ENT as applied to plastic surgery.	
240004	Paper IV	Recent advances in modern method of plastic surgery.	