

PARUL UNIVERSITY

R/Notification-1434/2024-25

Office of the Registrar
December 17, 2024

NOTIFICATION

Sub: Course structures of 3rd semester to 8th semester of UG Programmes offered by Parul Institute of Paramedical and Health Sciences

Ref: (i) Proceedings of the Eighteenth Meeting of the Governing Body held on December 2, 2024

(ii) Orders of the Provost

PREAMBLE:

Principal, PIPHS proposed course structures, syllabus and teaching and examination schemes of subjects offered under UG programmes offered by PIPHS from 3rd semester to 8th semester during the Eighteenth Meeting of the Governing Body held on December 2, 2024 which was approved by the Governing Body. Hence, the Order.

ORDER:

The course structures of subjects offered under UG programmes offered by PIPHS from 3rd semester to 8th semester are enclosed in the Annexure.

Director, PIPHS is requested to arrange to upload syllabus of subjects offered under UG programmes offered by PIPHS from 3rd semester to 8th semester on MIS.

By Order


Registrar

To,
Director, PIPHS

Copy to,

- 1) Dean, Faculty of Medicine
- 2) The Controller of Examinations
- 3) Director (IQAC)
- 4) PUMIS Coordinator

Submitted to,

- 1) The President
- 2) The Provost

ANNEXURE

List all UG specializations offered by PIPHS

- Medical Laboratory Technology
- Neuro Sciences
- Renal Dialysis
- Cardiac Care Technology
- Radiography
- Optometry
- Anaesthesia and Critical Care
- Operation Theatre Technology
- Emergency Medical Services

List the course structures of subjects offered from 3rd semester to 8th semester of UG programmes

SEMESTER 3

CORE SUBJECTS – Medical Laboratory Technology		
Code	Subject	Credits
19010003DS01	Microbiology & Pathology – 1 (T)	3
19010003DS02	Microbiology & Pathology – 1 (P)	1
19010603DS01	Basic Hematology And Hematological Diseases (T)	3
19010603DS02	Basic Hematology And Hematological Diseases (P)	1
19010603DS03	Medical Microbiology-I (Bacteriology and Mycology (T)	3
19010603DS04	Medical Microbiology-I (Bacteriology and Mycology (P)	1
CORE SUBJECTS - Neuro Sciences		
19010003DS01	Microbiology & Pathology – 1 (T)	3
19010003DS02	Microbiology & Pathology – 1 (P)	1
19010803DS01	Pathology Of Neuroscience And Spine Disorder (T)	3
19010803DS02	Pathology Of Neuroscience And Spine Disorder (P)	1

19010803DS03	Neurological Diseases (T)	3
19010803DS04	Neurological Diseases (P)	1
CORE SUBJECTS – Renal Dialysis		
19010003DS01	Microbiology & Pathology – 1 (T)	3
19010003DS02	Microbiology & Pathology – 1 (P)	1
19011203DS01	Pharmacology And Renal Disease (T)	3
19011203DS02	Pharmacology And Renal Disease (P)	1
19011203DS03	Clinical Examination & Symptomology In Nephrology (T)	3
19011203DS04	Clinical Examination & Symptomology In Nephrology (P)	1
CORE SUBJECTS – Cardiac Care Technology		
19010003DS01	Microbiology & Pathology – 1 (T)	3
19010003DS02	Microbiology & Pathology – 1 (P)	1
19010303DS01	Electrocardiogram (T)	3
19010303DS02	Electrocardiogram (P)	1
19010303DS03	Medicine Relevant to Cardiac Disorders -I (T)	3
19010303DS04	Medicine Relevant to Cardiac Disorders -I (P)	1
CORE SUBJECTS - Radiography		
19010003DS01	Microbiology & Pathology – 1 (T)	3
19010003DS02	Microbiology & Pathology – 1 (P)	1
19011103DS01	Computed Tomography (T)	3
19011103DS02	Computed Tomography (P)	1
19011103DS03	Radiation Protection In Diagnostic Radiology (T)	3
19011103DS04	Radiation Protection In Diagnostic Radiology (P)	1
CORE SUBJECTS - Optometry		
19010003DS01	Microbiology & Pathology – 1 (T)	3
19010003DS02	Microbiology & Pathology – 1 (P)	1

19011003DS01	Contact Lens (T)	3
19011003DS02	Contact Lens (P)	1
19011003DS03	Ocular Disease (T)	3
19011003DS04	Ocular Disease (P)	1
CORE SUBJECTS –Anesthesia and Critical Care		
19010003DS01	Microbiology & Pathology – 1 (T)	3
19010003DS02	Microbiology & Pathology – 1 (P)	1
19011303DS01	Basic Techniques Of Anesthesia (T)	3
19011303DS02	Basic Techniques Of Anesthesia (P)	1
19011303DS03	Basic Critical Care Technology (T)	3
19011303DS04	Basic Critical Care Technology (T)	1
CORE SUBJECTS – Operation Theatre Technology		
19010003DS01	Microbiology & Pathology – 1 (T)	3
19010003DS02	Microbiology & Pathology – 1 (P)	1
19010903DS01	Patient & Staff Safety and Quality Care (T)	3
19010903DS02	Patient & Staff Safety and Quality Care (P)	1
19010903DS03	Medical Emergencies And Care (T)	3
19010903DS04	Medical Emergencies And Care (P)	1
CORE SUBJECTS – Emergency Medical Services		
19010003DS01	Microbiology & Pathology – 1 (T)	3
19010003DS02	Microbiology & Pathology – 1 (P)	1
19010403DS01	Patient Care Assessment and Ambulance – 1 (T)	3
19010403DS02	Patient Care Assessment and Ambulance – 1 (P)	1
19010403DS03	ICU Equipment's and Care (T)	3
19010403DS04	ICU Equipment's and Care (P)	1

ABILITY ENHANCEMENT COURSES (AEC) - III		
Code	Subject	Credits
00019303AE01	Advanced and Higher English	2
00019303AE02	German-I	2
00019303AE03	French-I	2
UNIVERSITY ELECTIVE – III		
Code	Subject	Credits
19010203UE01	Health Research Fundamentals	4
17010103UE01	Intellectual Property	4
07010103UE01	Occupational Health and Ergonomics	4
02010103UE01	Yoga and Positive Psychology for Managing Career and Life	4

SKILL ELECTIVE COURSES (SEC) – III		
Code	Subject	Credits
03010503SE01	AI/ Web Development and Designing	2

VALUE ADDED COURSES (VAC) – III		
Code	Subject	Credits
00019303VA01	IPDC including history and culture of India and IKS – 2	2

SEMESTER 4

CORE SUBJECTS – Medical Laboratory Technology		
Code	Subject	Credits
19010004DS01	Microbiology & Pathology-2 (T)	3
19010004DS02	Microbiology & Pathology-2 (P)	1
19010004DS03	Applied Medicine & Pharmacology-1 (T)	4

19010004DS04	Applied Medicine & Pharmacology-1 (P)	2
19010604DS01	Histopathology and Cytology (T)	3
19010604DS02	Histopathology and Cytology (P)	1
CORE SUBJECTS - Neuro Sciences		
19010004DS01	Microbiology & Pathology-2 (T)	3
19010004DS02	Microbiology & Pathology-2 (P)	1
19010004DS03	Applied Medicine & Pharmacology-1 (T)	4
19010004DS04	Applied Medicine & Pharmacology-1 (P)	2
19010804DS01	Biomedical Engineering And Hospital Management (T)	3
19010804DS02	Biomedical Engineering And Hospital Management (P)	1
CORE SUBJECTS – Renal Dialysis		
19010004DS01	Microbiology & Pathology-2 (T)	3
19010004DS02	Microbiology & Pathology-2 (P)	1
19010004DS03	Applied Medicine & Pharmacology-1 (T)	4
19010004DS04	Applied Medicine & Pharmacology-1 (P)	2
19011204DS01	Quality Control In Dialysis Unit (T)	3
19011204DS02	Quality Control In Dialysis Unit (P)	1
CORE SUBJECTS – Cardiac Care Technology		
19010004DS01	Microbiology & Pathology-2 (T)	3
19010004DS02	Microbiology & Pathology-2 (P)	1
19010004DS03	Applied Medicine & Pharmacology-1 (T)	4
19010004DS04	Applied Medicine & Pharmacology-1 (P)	2
19010304DS01	Medicine Relevant to Cardiac Disorders -II (T)	3
19010304DS02	Medicine Relevant to Cardiac Disorders -II (P)	1
CORE SUBJECTS - Radiography		
19010004DS01	Microbiology & Pathology-2 (T)	3

19010004DS02	Microbiology & Pathology-2 (P)	1
19010004DS03	Applied Medicine & Pharmacology-1 (T)	4
19010004DS04	Applied Medicine & Pharmacology-1 (P)	2
19011104DS01	Magnetic Resonances Imaging (T)	3
19011104DS02	Magnetic Resonances Imaging (P)	1
CORE SUBJECTS - Optometry		
19010004DS01	Microbiology & Pathology-2 (T)	3
19010004DS02	Microbiology & Pathology-2 (P)	1
19010004DS03	Applied Medicine & Pharmacology-1 (T)	4
19010004DS04	Applied Medicine & Pharmacology-1 (P)	2
19011004DS01	Binocular Vision (T)	3
19011004DS02	Binocular Vision (P)	1
CORE SUBJECTS –Anesthesia and Critical Care		
19010004DS01	Microbiology & Pathology-2 (T)	3
19010004DS02	Microbiology & Pathology-2 (P)	1
19010004DS03	Applied Medicine & Pharmacology-1 (T)	4
19010004DS04	Applied Medicine & Pharmacology-1 (P)	2
19011304DS01	Anesthesia Equipments, Care & Maintenance (T)	3
19011304DS02	Anesthesia Equipments, Care & Maintenance (P)	1
CORE SUBJECTS – Operation Theatre Technology		
19010004DS01	Microbiology & Pathology-2 (T)	3
19010004DS02	Microbiology & Pathology-2 (P)	1
19010004DS03	Applied Medicine & Pharmacology-1 (T)	4
19010004DS04	Applied Medicine & Pharmacology-1 (P)	2
19010904DS01	Principles of Operation Theatre Management (T)	3
19010904DS02	Principles of Operation Theatre Management (P)	1

CORE SUBJECTS – Emergency Medical Services		
19010004DS01	Microbiology & Pathology-2 (T)	3
19010004DS02	Microbiology & Pathology-2 (P)	1
19010004DS03	Applied Medicine & Pharmacology-1 (T)	4
19010004DS04	Applied Medicine & Pharmacology-1 (P)	2
19010404DS01	Patient Care Assessment and Ambulance – 2 (T)	3
19010404DS02	Patient Care Assessment and Ambulance – 2 (P)	1

ABILITY ENHANCEMENT COURSES (AEC) - IV		
Code	Subject	Credits
00019304AE04	Advanced and Higher English II	2
00019304AE05	German-II	2
00019304AE06	French-II	2

MINOR THEORY		
Code	Subject	Credits
03011304NT01	Nanofabrication Techniques	4
03010504AM01	Data Science for AI	3
19010904OT01	Patient, Staff Safety And Quality Care	3
19011304AC01	Essentials Of Anesthesia – I	3

MINOR PRACTICAL		
Code	Subject	Credits
03010504AM01	Data Science for AI	1
19010904OT01	Patient, Staff Safety And Quality Care	1

19011304AC01	Essentials Of Anesthesia – I	1
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SKILL ELECTIVE COURSES (SEC) – IV		
Code	Subject	Credits
19010004SE01	Health Informatics & Personalised Medicine	2

VALUE ADDED COURSES (VAC) – IV		
Code	Subject	Credits
00019302VA01	Positive Mental Health/ Physical Education: Yoga/NCC	2

SEMESTER 5

CORE SUBJECTS – Medical Laboratory Technology		
Code	Subject	Credits
19010005DS01	Applied Medicine & Pharmacology-2 (T)	4
19010005DS02	Applied Medicine & Pharmacology-2 (P)	2
19010605DS01	Metabolism and Molecular Biology (T)	3
19010605DS02	Metabolism and Molecular Biology (P)	1
19010605DS03	Medical Microbiology - II (Immunology & Virology) (T)	3
19010605DS04	Medical Microbiology - II (Immunology & Virology) (P)	1
CORE SUBJECTS - Neuro Sciences		
19010005DS01	Applied Medicine & Pharmacology-2 (T)	4
19010005DS02	Applied Medicine & Pharmacology-2 (P)	2
19010805DS01	Patient Assessment and Disease of CNS (T)	3
19010805DS02	Patient Assessment and Disease of CNS (P)	1
19010805DS03	Nerve Disorder, Patient Care And Rehabilitation (T)	3

19010805DS04	Nerve Disorder, Patient Care And Rehabilitation (P)	1
CORE SUBJECTS – Renal Dialysis		
19010005DS01	Applied Medicine & Pharmacology-2 (T)	4
19010005DS02	Applied Medicine & Pharmacology-2 (P)	2
19011205DS01	Applied Dialysis Technology (T)	3
19011205DS02	Applied Dialysis Technology (P)	1
19011205DS03	Infection Control & Plasmapheresis (T)	3
19011205DS04	Infection Control & Plasmapheresis (P)	1
CORE SUBJECTS – Cardiac Care Technology		
19010005DS01	Applied Medicine & Pharmacology-2 (T)	4
19010005DS02	Applied Medicine & Pharmacology-2 (P)	2
19010305DS01	Echocardiography (T)	3
19010305DS02	Echocardiography (P)	1
19010305DS03	Cardiac Catheterization (T)	3
19010305DS04	Cardiac Catheterization (P)	1
CORE SUBJECTS - Radiography		
19010005DS01	Applied Medicine & Pharmacology-2 (T)	4
19010005DS02	Applied Medicine & Pharmacology-2 (P)	2
19011105DS01	Basic of Radiotherapy (T)	3
19011105DS02	Basic of Radiotherapy (P)	1
19011105DS03	Ultrasonography (T)	3
19011105DS04	Ultrasonography (P)	1
CORE SUBJECTS - Optometry		
19010005DS01	Applied Medicine & Pharmacology-2 (T)	4
19010005DS02	Applied Medicine & Pharmacology-2 (P)	2
19011005DS01	Low Vision (T)	3

19011005DS02	Low Vision (P)	1
19011005DS03	Systemic Disease (T)	3
19011005DS04	Systemic Disease (P)	1
CORE SUBJECTS –Anesthesia and Critical Care		
19010005DS01	Applied Medicine & Pharmacology-2 (T)	4
19010005DS02	Applied Medicine & Pharmacology-2 (P)	2
19011305DS01	Essentials Of Anesthesia (T)	3
19011305DS02	Essentials Of Anesthesia (P)	1
19011305DS03	Anaesthesia Technology (T)	3
19011305DS04	Anaesthesia Technology (P)	1
CORE SUBJECTS – Operation Theatre Technology		
19010005DS01	Applied Medicine & Pharmacology-2 (T)	4
19010005DS02	Applied Medicine & Pharmacology-2 (P)	2
19010905DS01	Advance Anesthetic Equipment And Drugs (T)	3
19010905DS02	Advance Anesthetic Equipment And Drugs (P)	1
19010905DS03	Basic Anesthetic Techniques (T)	3
19010905DS04	Basic Anesthetic Techniques (P)	1
CORE SUBJECTS – Emergency Medical Services		
19010005DS01	Applied Medicine & Pharmacology-2 (T)	4
19010005DS02	Applied Medicine & Pharmacology-2 (P)	2
19010405DS01	Obstetrics Emergency (T)	3
19010405DS02	Obstetrics Emergency (P)	1
19010405DS03	Patient Assessment And Medication Administration (T)	3
19010405DS04	Patient Assessment And Medication Administration (P)	1

MINOR THEORY		
Code	Subject	Credits
03011305NT01	Nanofabrication Techniques	4
03011305NT03	Nanotoxicology and Safety Assessment	4
03010505AM01	Machine Learning	3
03010505AM03	Deep Learning	3
19010905OT01	Principals Of Operation Theatre Management	3
19010905OT03	Operation Theatre Technology 1	3
19011305AC01	Advanced Anesthesia Technology	3
19011305AC03	Advanced Critical Care Technology	3

MINOR PRACTICAL		
Code	Subject	Credits
03010505AM02	Machine Learning	1
03010505AM04	Deep Learning	1
19010905OT02	Principals Of Operation Theatre Management	1
19010905OT04	Operation Theatre Technology 1	1
19011305AC02	Advanced Anesthesia Technology	1
19011305AC04	Advanced Critical Care Technology	1

SKILL ELECTIVE COURSES (SEC) – V		
Code	Subject	Credits
06010105SE01	Digital Literacy	2
06010105SE02	Finance for everyone	2

SEMESTER 6

CORE SUBJECTS – Medical Laboratory Technology		
Code	Subject	Credits
19010606DS01	Advanced Hematology And Transfusion Medicine (T)	3
19010606DS02	Advanced Hematology And Transfusion Medicine (P)	1
19010606DS03	Medical Microbiology-III (Parasitology and Industrial Microbiology) (T)	3
19010606DS04	Medical Microbiology-III (Parasitology and Industrial Microbiology) (P)	1
19010606DS05	Phlebotomy Techniques (P)	4
CORE SUBJECTS - Neuro Sciences		
19010806DS01	Modern Advancement In Neuroscience (T)	3
19010806DS02	Modern Advancement In Neuroscience (P)	1
19010806DS03	Pediatric Neurology And Neuroscience (T)	3
19010806DS04	Pediatric Neurology And Neuroscience (P)	1
19010806DS05	EEG (P)	4
CORE SUBJECTS – Renal Dialysis		
19011206DS01	Advance In Modern Haemodialysis (T)	3
19011206DS02	Advance In Modern Haemodialysis (P)	1
19011206DS03	General Management In Hospital (T)	3
19011206DS04	General Management In Hospital (P)	1
19011206DS05	General Dialysis Technology (P)	4
CORE SUBJECTS – Cardiac Care Technology		
19010306DS01	Perfusion science & Technology (T)	3
19010306DS02	Perfusion science & Technology (P)	1
19010306DS03	Cardiac surgery (T)	3
19010306DS04	Cardiac surgery (P)	1

19010306DS05	Clinical Posting - Cardiac Monitoring (P)	4
CORE SUBJECTS - Radiography		
19011106DS01	Nuclear Medicine Imaging (T)	3
19011106DS02	Nuclear Medicine Imaging (P)	1
19011106DS03	Interventional & Radiological Procedures (T)	3
19011106DS04	Interventional & Radiological Procedures (P)	1
19011106DS05	Advancement In Radiology (P)	4
CORE SUBJECTS - Optometry		
19011006DS01	Community Optometry and Geriatric Optometry (T)	3
19011006DS02	Community Optometry and Geriatric Optometry (P)	1
19011006DS03	Professional Practice Management (T)	3
19011006DS04	Professional Practice Management (P)	1
19011006DS05	Contact Lens (Soft) (P)	4
CORE SUBJECTS –Anesthesia and Critical Care		
19011306DS01	Advanced Anesthesia Technology (T)	3
19011306DS02	Advanced Anesthesia Technology (P)	1
19011306DS03	Advanced Critical Care Technology (T)	3
19011306DS04	Advanced Critical Care Technology (P)	1
19011306DS05	Basic And Advanced Anesthesia And Critical Care (P)	4
CORE SUBJECTS – Operation Theatre Technology		
19010906DS01	Specialized Surgery And Instrumentation (T)	3
19010906DS02	Specialized Surgery And Instrumentation (P)	1
19010906DS03	Electronics And Technology In Surgery (T)	3
19010906DS04	Electronics And Technology In Surgery (P)	1
19010906DS05	General And Advanced Operation Theatre Technology (P)	4

CORE SUBJECTS – Emergency Medical Services		
19010406DS01	Basics Of Airway Management (T)	3
19010406DS02	Basics Of Airway Management (P)	1
19010406DS03	Advanced Airway Management (T)	3
19010406DS04	Advanced Airway Management (P)	1
19010406DS05	Ambulance Equipments (P)	4

ABILITY ENHANCEMENT COURSES (AEC) - VI		
Code	Subject	Credits
00019306AE01	Professional ethics and communication	2

PROJECT/INTERNSHIP		
Code	Subject	Credits
19010306IN01	Project/Internship	4

MINOR THEORY		
Code	Subject	Credits
03011306NT01	Nanocomposites	4
03010506AM01	Natural Language Processing	3

MINOR PRACTICAL		
Code	Subject	Credits
03010506AM02	Natural Language Processing	1
19010906OT01	Operation Theatre Technology 2	4
19011306AC01	Basic and Advanced Anesthesia and Critical Care	4

SEMESTER 7 (HONS)

CORE SUBJECTS – Medical Laboratory Technology		
Code	Subject	Credits
19010607DS01	Medical Laboratory Technology- I (P)	4
19010607DS02	Medical Laboratory Technology- II (P)	4
19010607DS03	Medical Laboratory Technology- III (P)	4
CORE SUBJECTS - Neuro Sciences		
19010807DS01	NCV (P)	4
19010807DS02	EMG (P)	4
19010807DS03	Medical Instrumentation And Imaging (P)	4
CORE SUBJECTS – Renal Dialysis		
19011207DS01	Continuous Renal Replacement Therapy (P)	4
19011207DS02	Hemoperfusion (P)	4
19011207DS03	Peritoneal Dialysis (P)	4
CORE SUBJECTS – Cardiac Care Technology		
19010307DS01	Clinical Training - Intensive Cardiac Care Unit (P)	4
19010307DS02	Clinical Training - Echocardiography (P)	4
19010307DS03	Clinical Training - Electrocardiogram (P)	4
CORE SUBJECTS - Radiography		
19011107DS01	General Radiography (P)	4
19011107DS02	Interventional Radiological Procedure (P)	4
19011107DS03	Patient Care & Emergency (P)	4
CORE SUBJECTS - Optometry		
19011007DS01	Contact Lens (RGP) (P)	4
19011007DS02	Ocular Prosthesis (P)	4
19011007DS03	Cornea (P)	4

CORE SUBJECTS –Anesthesia and Critical Care		
19011307DS01	Sterilization Techniques And Equipments Related To Anesthesia Technology (P)	4
19011307DS02	Anesthesia Techniques Including Complications (P)	4
19011307DS03	Principles Of Anesthesia (P)	4
CORE SUBJECTS – Operation Theatre Technology		
19010907DS01	Surgical Instruments And Procedures (P)	4
19010907DS02	Different Types Of Surgery (P)	4
19010907DS03	Medical Emergencies (P)	4
CORE SUBJECTS – Emergency Medical Services		
19010407DS01	Pre Hospital Care (P)	4
19010407DS02	Patient Safety (P)	4
19010407DS03	Medical Equipments (P)	4

ON JOB TRAINING		
Code	Subject	Credits
19010307IN01	On Job Training	6

MINOR THEORY		
Code	Subject	Credits
03011307NT01	Nanosensors	4
03010507AM01	AI and Machine Learning in Healthcare	3

MINOR PRACTICAL		
Code	Subject	Credits
19010907OT01	Clinics General And Advanced Operation Theatre	4

19011307AC01	Advanced Physical Assessment & Critical Care Technology – 1	4
03010507AM02	AI and Machine Learning in Healthcare	1

SEMESTER 7 (RESEARCH)

CORE SUBJECTS – Medical Laboratory Technology		
Code	Subject	Credits
19010607DS01	Medical Laboratory Technology- I (P)	4
19010607DS02	Medical Laboratory Technology- II (P)	4
19010607DS03	Medical Laboratory Technology- III (P)	4
CORE SUBJECTS - Neuro Sciences		
19010807DS01	NCV (P)	4
19010807DS02	EMG (P)	4
19010807DS03	Medical Instrumentation And Imaging (P)	4
CORE SUBJECTS – Renal Dialysis		
19011207DS01	Continuous Renal Replacement Therapy (P)	4
19011207DS02	Hemoperfusion (P)	4
19011207DS03	Peritoneal Dialysis (P)	4
CORE SUBJECTS – Cardiac Care Technology		
19010307DS01	Clinical Training - Intensive Cardiac Care Unit (P)	4
19010307DS02	Clinical Training - Echocardiography (P)	4
19010307DS03	Clinical Training - Electrocardiogram (P)	4
CORE SUBJECTS – Radiography		
19011107DS01	General Radiography (P)	4
19011107DS02	Interventional Radiological Procedure (P)	4
19011107DS03	Patient Care & Emergency (P)	4

CORE SUBJECTS – Optometry		
19011007DS01	Contact Lens (RGP) (P)	4
19011007DS02	Ocular Prosthesis (P)	4
19011007DS03	Cornea (P)	4
CORE SUBJECTS –Anesthesia and Critical Care		
19011307DS01	Sterilization Techniques And Equipments Related To Anesthesia Technology (P)	4
19011307DS02	Anesthesia Techniques Including Complications (P)	4
19011307DS03	Principles Of Anesthesia (P)	4
CORE SUBJECTS – Operation Theatre Technology		
19010907DS01	Surgical Instruments And Procedures (P)	4
19010907DS02	Different Types Of Surgery (P)	4
19010907DS03	Medical Emergencies (P)	4
CORE SUBJECTS – Emergency Medical Services		
19010407DS01	Pre Hospital Care (P)	4
19010407DS02	Patient Safety (P)	4
19010407DS03	Medical Equipments (P)	4
RESEARCH PROJECT		
Code	Subject	Credits
19010307RP01	Research Project	6
MINOR THEORY		
Code	Subject	Credits
03011307NT01	Nanosensors	4
03010507AM01	AI and Machine Learning in Healthcare	3

MINOR PRACTICAL		
Code	Subject	Credits
19010907OT01	Clinics General And Advanced Operation Theatre	4
19011307AC01	Advanced Physical Assessment & Critical Care Technology – 1	4
03010507AM02	AI and Machine Learning in Healthcare	1

SEMESTER 8 (HONS)

CORE SUBJECTS – Medical Laboratory Technology		
Code	Subject	Credits
19010608DS01	Advanced Diagnostic Techniques (P)	4
19010608DS02	Medical Laboratory Science Management (P)	4
19010608DS03	Introduction to Quality and Patient Safety (P)	4
CORE SUBJECTS - Neuro Sciences		
19010808DS01	Biological Study Of Perception , Learning, Behavior, Memory And Consciousness (P)	4
19010808DS02	Nervous System And Spinal Cord (P)	4
19010808DS03	Mechanism Of Brain Development (P)	4
CORE SUBJECTS – Renal Dialysis		
19011208DS01	Plasmapheresis (P)	4
19011208DS02	Vascular Access Of Haemodialysis (P)	4
19011208DS03	Emergency Dialysis Technology (P)	4
CORE SUBJECTS – Cardiac Care Technology		
19010308DS01	Clinical Training - Medical Electronics in Cardiology (P)	4
19010308DS02	Clinical Training - Cardiac OT (P)	4
19010308DS03	Clinical Training - Cardiac Catheterization (P)	4

CORE SUBJECTS - Radiography		
19011108DS01	Clinical Aspects of Radio-Imaging (P)	4
19011108DS02	Magnetic Resonance Imaging (P)	4
19011108DS03	Computed Tomography (P)	4
CORE SUBJECTS - Optometry		
19011008DS01	Dispensing Optics (Pediatric) (P)	4
19011008DS02	Dispensing Optics (Geriatric) (P)	4
19011008DS03	Low Vision Rehabilitation (P)	4
CORE SUBJECTS –Anesthesia and Critical Care		
19011308DS01	Pre-Intra-Post-Operative Preparation, Complication and Management (P)	4
19011308DS02	ICU Management & Common Issues In ICU (P)	4
19011308DS03	Advanced Physical Assessment & Critical Care Technology (P)	4
CORE SUBJECTS – Operation Theatre Technology		
19010908DS01	Medicine Relevant to Operation Theatre Technology (P)	4
19010908DS02	Hospital Operations Management (P)	4
19010908DS03	Quality and Patient Safety (P)	4
CORE SUBJECTS – Emergency Medical Services		
19010408DS01	Trauma Management (P)	4
19010408DS02	ICU Equipments (P)	4
19010408DS03	Hospital Healthcare Management (P)	4
ON JOB TRAINING		
Code	Subject	Credits
19010308IN01	On Job Training	6

MINOR THEORY		
Code	Subject	Credits
03010508AM01	AI and Machine Learning Projects	4
03011308NT01	Nanotechnology Project	4
MINOR PRACTICAL		
Code	Subject	Credits
19011308AC01	Pre-Intra-Post-Operative Preparation, Complication and Management	4
19010908OT01	Hospital Operations Management	4

SEMESTER 8 (RESEARCH)

CORE SUBJECTS – Medical Laboratory Technology		
Code	Subject	Credits
19010608DS01	Advanced Diagnostic Techniques (P)	4
19010608DS02	Medical Laboratory Science Management (P)	4
19010608DS03	Introduction to Quality and Patient Safety (P)	4
CORE SUBJECTS - Neuro Sciences		
19010808DS01	Biological Study of Perception, Learning, Behavior, Memory And Consciousness (P)	4
19010808DS02	Nervous System and Spinal Cord (P)	4
19010808DS03	Mechanism of Brain Development (P)	4
CORE SUBJECTS – Renal Dialysis		
19011208DS01	Plasmapheresis (P)	4
19011208DS02	Vascular Access Of Haemodialysis (P)	4
19011208DS03	Emergency Dialysis Technology (P)	4

CORE SUBJECTS – Cardiac Care Technology		
19010308DS01	Clinical Training - Medical Electronics in Cardiology (P)	4
19010308DS02	Clinical Training - Cardiac OT (P)	4
19010308DS03	Clinical Training - Cardiac Catheterization (P)	4
CORE SUBJECTS - Radiography		
19011108DS01	Clinical Aspects of Radio-Imaging (P)	4
19011108DS02	Magnetic Resonance Imaging (P)	4
19011108DS03	Computed Tomography (P)	4
CORE SUBJECTS - Optometry		
19011008DS01	Dispensing Optics (Pediatric) (P)	4
19011008DS02	Dispensing Optics (Geriatric) (P)	4
19011008DS03	Low Vision Rehabilitation (P)	4
CORE SUBJECTS –Anesthesia and Critical Care		
19011308DS01	Pre-Intra-Post-Operative Preparation, Complication and Management (P)	4
19011308DS02	ICU Management & Common Issues In ICU (P)	4
19011308DS03	Advanced Physical Assessment & Critical Care Technology (P)	4
CORE SUBJECTS – Operation Theatre Technology		
19010908DS01	Medicine Relevant to Operation Theatre Technology (P)	4
19010908DS02	Hospital Operations Management (P)	4
19010908DS03	Quality and Patient Safety (P)	4
CORE SUBJECTS – Emergency Medical Services		
19010408DS01	Trauma Management (P)	4
19010408DS02	ICU Equipments (P)	4
19010408DS03	Hospital Healthcare Management (P)	4

RESEARCH PROJECT		
Code	Subject	Credits
19010308RP01	Research Project	6

MINOR THEORY		
Code	Subject	Credits
03010508AM01	AI and Machine Learning Projects	4
03011308NT01	Nanotechnology Project	4

MINOR PRACTICAL		
Code	Subject	Credits
19011308AC01	Pre-Intra-Post-Operative Preparation, Complication and Management	4
19010908OT01	Hospital Operations Management	4