



ANNAPOORANA MEDICAL COLLEGE & HOSPITALS-SALEM
DEPARTMENT OF MICROBIOLOGY
PG TRAINING PROGRAM FOR THREE YEARS
(2022-2025 Batch)

S.NO	MICROBIOLOGY: LABORATORY and CLINICAL POSTING	FIRST YEAR	SECOND YEAR	THIRD YEAR	TOTAL
1	Skills(Respective posting of PG)	Attached			
2	Preparation for Dissertation Protocol Submission	-	-	-	To Submit End of 6th Month
3	Teaching: Seminar/Symposium				
	Micro teaching (1 / week)	40	40	20	100
	Culture seminar (2 / month)	-	25	25	50
	Seminar (1/ fortnight)	20	20	10	50
	Journal Club (1/ month)	10	10	5	25
	Symposium (1/ 3 months)	4	4	2	10
4	Medical Statistics (Research Methodology & Epidemiology)	-	-	-	To Complete by End of 6th Month
5	Sample Collection	1 Week	-	-	1 Week
6	ICTC/PPTCT/ART	1 Week	1 Week	-	2 Week
7	TB/RNTCP	1 Week	1 Week	-	2 Week
8	Other Lab department posting	<i>April 2023 (Tentative date)</i>			
	Clinical Biochemistry (one week)	1 Week	-	-	1 Week
	Hematology (one week)	1 Week	-	-	1 Week
	Histopathology (one week)	1 Week	-	-	1 Week
	Blood bank (one week)	1 Week	-	-	1 Week
9	Clinical department posting	<i>Nov -Dec 2023(Tentative date)</i>			
	Medicine & Allied (2 wks)	-	2 Week	-	2 Week
	Surgery & Allied (2 wks)	-	2 Week	-	2 Week
	OBG (2 wks)	-	2 Week	-	2 Week
	Paediatrics (2 wks)	-	2 Week	-	2 Week
10	Critical care Departments	<i>April 2024 (Tentative date)</i>			
	Medical ICU (1 week)	-	1 Week	-	1 Week
	Surgical ICU (1 week)	-	1 Week	-	1 Week
	Neonatal/Pediatric ICU (1 week)	-	1 Week	-	1 Week
11	Outside AMCH postings				
	District Hospital postings	<i>May - Jul 2024(Tentative date)</i>			
		-	3 months	-	3 months
	Kings Institute/ Virology	<i>September 2024 (Tentative date)</i>			
		-	4 Weeks	-	4 Weeks
12	Internal Assessment	8	4	4	16
	Formative Assessment	10	10	6	26
	Summative Assessment	1	1	1	3
13	Conference/CME (Atleast once a year)	1	1	1	3
14	Publications (1+1)	-	1	1	2
15	Portfolio of microteaching, Seminars, CME, Oral/Poster presentation etc				To Submit three Months before final exam

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I	General Microbiology				
1	Preparations of wet mounts from direct clinical sample/culture isolate and reporting	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-10	P-10	P-10	P-30
2	Preparation of smears from clinical specimens, staining and reporting	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-10	P-10	P-10	P-30
3	Packaging and transporting sample (for reference lab)	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-10	P-10	P-Nil	P-20
4	Hanging drop preparation	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-10	P-10	P-10	P-30
5	Bacteriological testing of water	O-5	O-Nil	O-Nil	O-5
		A-5	A-5	A-Nil	A-10
		P-Nil	P-5	P-Nil	P-5
6	Bacteriological testing of air	O-5	O-Nil	O-Nil	O-5
		A-5	A-5	A-Nil	A-10
		P-Nil	P-Nil	P-Nil	P-Nil
7	Methods for preservation of bacteria	O-10	O-Nil	O-Nil	O-10
		A-5	A-5	A-Nil	A-10
		P-Nil	P-10	O-10	P-20
8	Maintenance of stock cultures	O-10	O-Nil	O-Nil	O-10
		A-Nil	A-5	A-Nil	A-5
		P-Nil	P-10	P-10	P-20
II	Staining				
9	Gram staining	O-10	O-Nil	O-Nil	O-10
		A-20	A-Nil	A-Nil	A-20
		P-30	P-30	P-30	P-90
10	Albert staining	O-5	O-Nil	O-Nil	O-5
		A-10	A-Nil	A-Nil	A-10
		P-10	P-5	P-5	P-20
11	Modified ZN staining	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
12	IQC-staining	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
III	Media preparation				
13	Preparation, & Quality Control (QC) of culture media	O-20	O-Nil	O-Nil	O-20
		A-20	A-Nil	A-Nil	A-20
		P-30	P-50	P-Nil	P-80
IV	Sterilization				
14	Operation & maintenance of autoclave & hot air oven	O-10	O-Nil	O-Nil	O-10
		A-10	A-Nil	A-Nil	A-10
		P-20	P-20	P-20	P-60
V	Bacteriology				
15	Specimen collection for microbiological investigations (Blood Culture, swab, aspirates)	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
16	Instructions to patient/relatives on sample collection (urine, sputum, stool)	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15

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17	Inoculation of liquid & solid media	O-20	O-Nil	O-Nil	O-20
		A-20	A-Nil	A-Nil	A-20
		P-30	P-30	P-30	P-90
18	Conventional Identification test	O-20	O-Nil	O-Nil	O-20
		A-20	A-Nil	A-Nil	A-20
		P-30	P-30	P-30	P-90
19	Anaerobic cultivation test	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-Nil	P-5	P-5	P-10
VI	Antimicrobial Resistance				
20	Modified Kirby-bauer technique	O-10	O-Nil	O-Nil	O-10
		A-20	A-Nil	A-Nil	A-20
		P-30	P-30	P-30	P-90
21	QC of antibiotic sensitivity testing	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
22	MIC testing (for Colistin)	O-10	O-Nil	O-Nil	O-10
		A-10	A-Nil	A-Nil	A-10
		P-10	P-10	P-10	P-30
23	Screen agar tests (for Oxacillin, Vancomycin etc)	O-10	O-Nil	O-Nil	O-10
		A-10	A-Nil	A-Nil	A-10
		P-10	P-10	P-10	P-30
24	Tests to put up for detection of ESBL, MBL, NDM and AmpC	O-10	O-Nil	O-Nil	O-10
		A-10	A-Nil	A-Nil	A-10
		P-10	P-10	P-10	P-30
25	IQC- Antibiotic disc potency	O-5	O-Nil	O-Nil	O-5
		A-5	A-5	A-Nil	A-10
		P-Nil	P-5	P-5	P-10
26	Operation of Automated Blood Culture System	O-5	O-Nil	O-Nil	O-5
		A-10	A-Nil	A-Nil	A-10
		P-20	P-20	P-20	P-60
27	Operation of Automated ID AST	O-5	O-Nil	O-Nil	O-5
		A-10	A-Nil	A-Nil	A-10
		P-20	P-20	P-20	P-60
28	Calculation of daily dose of antibiotics	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-10	P-10	P-15
VII	Mycobacteriology				
29	Petroff's concentration technique Acid fast staining (Ziehl-Neelsen method)	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-10	P-10	P-25
30	Acid fast staining (Ziehl-Neelsen method)	O-10	O-Nil	O-Nil	O-10
		A-20	A-Nil	A-Nil	A-20
		P-30	P-30	P-30	P-90
31	Modified ZN staining for M. leprae, nocardia	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
32	Fluorescent staining for Mycobacteria	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
33	Testing and maintenance of Gene Xpert system/Tru Nat	O-5	O-Nil	O-Nil	O-5
		A-10	A-Nil	A-Nil	A-10
		P-20	P-20	P-20	P-60
34	Preparation of slit skin smear for lepra bacilli	O-Nil	O-5	O-Nil	O-5
		A-Nil	A-5	A-Nil	A-5
		P-Nil	P-5	P-Nil	P-5
VIII	Mycology				
35	KOH Wet mount	O-5	O-Nil	O-Nil	O-5
		A-10	A-Nil	A-Nil	A-10
		P-20	P-20	P-20	P-60

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36	Germ tube test	O-5	O-Nil	O-Nil	O-5
		A-10	A-Nil	A-Nil	A-10
		P-20	P-20	P-20	P-60
37	Fungal/Slide culture	O-5	O-Nil	O-Nil	O-5
		A-10	A-Nil	A-Nil	A-10
		P-20	P-20	P-20	P-60
38	Negative staining for fungus	O-5	O-Nil	O-Nil	O-5
		A-10	A-Nil	A-Nil	A-10
		P-20	P-20	P-20	P-60
39	LPCB mount	O-10	O-Nil	O-Nil	O-10
		A-10	A-Nil	A-Nil	A-10
		P-10	P-10	P-10	P-30
40	Corn meal agar (Dalmau method)	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
41	Yeast fermentation and assimilation test	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
42	CHROM agar and its interpretation	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
IX	Parasitology				
43	Peripheral blood film preparation for blood parasites. Leishman/ Giemsa staining for malaria on thick & thin peripheral blood smear	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
44	Stool wet mount for R/M	O-10	O-Nil	O-Nil	O-10
		A-20	A-Nil	A-Nil	A-20
		P-30	P-30	P-30	P-90
45	Stool concentration techniques	O-5	O-Nil	O-Nil	O-5
		A-10	A-Nil	A-Nil	A-10
		P-5	P-5	P-5	P-15
46	Modified ZN staining for C. parvum and other intestinal protozoa	O-2	O-Nil	O-Nil	O-2
		A-2	A-Nil	A-Nil	A-2
		P-2	P-2	P-2	P-6
X	Serology/ Immunology				
47	Phlebotomy & separation of serum	O-10	O-Nil	O-Nil	O-10
		A-10	A-Nil	A-Nil	A-10
		P-5	P-5	P-5	P-15
48	Operation & maintenance of ELISA reader & washer	O-5	O-Nil	O-Nil	O-5
		A-10	A-Nil	A-Nil	A-10
		P-Nil	P-20	P-20	P-40
49	Calibration of pipettes	O-2	O-Nil	O-Nil	O-2
		A-2	A-Nil	A-Nil	A-2
		P-2	P-2	P-2	P-6
XI	Performance of serological tests				
50	Latex agglutination test (RA, ASO)	O-10	O-Nil	O-Nil	O-10
		A-10	A-Nil	A-Nil	A-10
		P-10	P-20	P-20	P-50
51	RPR card test/VDRL test	O-10	O-Nil	O-Nil	O-10
		A-20	A-Nil	A-Nil	A-20
		P-30	P-30	P-30	P-90
52	Tube agglutination test	O-10	O-Nil	O-Nil	O-10
		A-20	A-Nil	A-Nil	A-20
		P-30	P-30	P-30	P-90
53	Rapid card test /ICT test	O-10	O-Nil	O-Nil	O-10
		A-20	A-Nil	A-Nil	A-20
		P-30	P-30	P-30	P-90
54	IQC-serology	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
55	ELISA tests	O-10	O-Nil	O-Nil	O-10
		A-20	A-Nil	A-Nil	A-20
		P-30	P-30	P-30	P-90

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XII	Virology				
56	Sample collection : Nasopharyngeal swabs/ throat swabs and their transport in VTM	O-10	O-Nil	O-Nil	O-10
		A-10	A-10	A-Nil	A-20
		P-Nil	P-10	P-10	P-30
57	Sample extraction (Manual/automated)	O-10	O-Nil	O-Nil	O-10
		A-10	A-10	A-Nil	A-20
		P-Nil	P-10	P-10	P-30
58	Putting up PCR /RTPCR test	O-10	O-Nil	O-Nil	O-10
		A-10	A-10	A-Nil	A-20
		P-Nil	P-10	P-10	P-30
59	QC Molecular Laboratory	O-5	O-Nil	O-Nil	O-5
		A-5	A-Nil	A-Nil	A-5
		P-5	P-5	P-5	P-15
XIII	Infection control activities				
60	Environmental sampling	O-10	O-Nil	O-Nil	O-10
		A-10	A-10	A-Nil	A-20
		P-Nil	P-10	P-10	P-30
61	Identification of HAI	O-5	O-Nil	O-Nil	O-5
		A-5	A-5	A-Nil	A-10
		P-Nil	P-5	P-5	P-10
62	Calculation of HAI quality indicators	O-5	O-Nil	O-Nil	O-5
		A-5	A-5	A-Nil	A-10
		P-Nil	P-5	P-5	P-10
63	Hand hygiene	O-10	O-Nil	O-Nil	O-10
		A-10	A-Nil	A-Nil	A-10
		P-10	P-10	P-Nil	P-20
64	PPE donning and doffing	O-10	O-Nil	O-Nil	O-10
		A-10	A-10	A-Nil	A-20
		P-10	P-10	P-Nil	P-20
65	Audit of infection control practice/BMW segregation and disposal	O-5	O-Nil	O-Nil	O-5
		A-5	A-5	A-Nil	A-10
		P-0	P-5	P-5	P-10
XIV	ICTC				
66	Counseling of patients visiting ICTC center	O-10	O-Nil	O-Nil	O-10
		A-10	A-10	A-Nil	A-20
		P-Nil	P-10	P-10	P-20