

**Format A:**

**Name of the Department: Microbiology**

**UG Training Programme**

<b>Semester</b>	<b>Faculty I/C</b>	<b>Faculty for Lectures</b>
5 <sup>th</sup>	Dr. Kalpana M. Angadi	Dr. R. N. Misra
		Dr. D. P. Pandit
		Dr. N. R. Gandham
		Dr. Kalpana M. Angadi
		Dr. S. V. Jadhav
		Dr. Chanda R. Vyawahare
		Dr. Neetu S Gupta
		Dr. Nikunja K Das
		Dr. Rajashri A Patil
		Dr. Shahzad Beg Mirza

## Lecture/ Tutorial Programme

Semester: 5<sup>th</sup>

Faculty In charge: Dr. Kalpana M. Angadi

Sr. No	Date	Topic	Name of the Faculty Member
1	02/07/18	Cestodes -I	Dr. C.R. Vyawahare
2	03/07/18	Cestodes -II	Dr. C.R. Vyawahare
3	05/07/18	Intestinal nematodes-I	Dr. N.S. Gupta
4	07/07/18	Revision – Sterilization	Dr.R A Patil
5	09/07/18	<b>(Integrated teaching) Pneumonia</b>	Dr. R.N. Misra
6	10/07/18	<b>Integrated teaching- Pneumonia</b>	Dr. R.N. Misra
7	12/07/18	Intestinal nematodes-II	Dr. N.S. Gupta
8	14/07/18	Tissue Nematodes –I	Dr.R A Patil
9	16/07/18	Tissue Nematodes –II	Dr.R A Patil
10	17/07/18	Tutorial-Mycology	Dr. N.K. Das
11	19/07/18	Doubt clearing class	Dr. Shahzad Mirza
12	21/07/18	Tutorial-Enterobacteriaceae	Dr. Shahzad Mirza
13	23/07/18	PBL-Meningitis	Dr. N.R. Gandham
14	24/07/18	PBL-Meningitis	Dr. N.R. Gandham
15	26/07/18	PBL-Meningitis	Dr. N.R. Gandham
16	28/07/18	PBL-Meningitis	Dr. N.R. Gandham
17	30/07/18	Lab diagnosis of PUO	Dr. N.K.Das
18	31/07/18	Cryptosporidium and Toxoplasma	Dr. D.P. Pandit
19	02/08/18	Emerging & Re-emerging infection	Dr. R. N Misra
20	04/08/18	Lab diagnosis of wound infection	Dr. D. P. Pandit
21	06/08/18	Bioterrorism	Dr. K.M Angadi
22	07/08/18	Lab diagnosis GIT infection	Dr. C.R. Vyawahare
23	09/08/18	Microbiology of food, water and air	Dr. Shahzad Mirza
24	11/08/18	Tutorial-Virology	Dr. N.K.Das
25	13/08/18	Lab diagnosis of STD	Dr. R.N.Misra
26	14/08/18	Revision –Media and Biochemical Reaction	Dr.R A Patil
27	16/08/18	Lab diagnosis of Hospital acquired infections	Dr. N.R.Gandham
28	18/08/18	Tutorial- Parasitology	Dr R A Patil
29	20/08/18	Lab diagnosis of Food Poisoning	Dr. R A Patil
30	21/08/18	Revision- General Microbiology	Dr. N. K Das
31	23/08/18	Revision- Immunology	Dr N S Gupta
32	25/08/18	Revision- Bacteriology	Dr. N. K Das

33	27/08/18	<b>Integrated teaching – Enteric fever</b>	Dr.Shahzad Mirza
34	28/08/18	<b>Integrated teaching – Enteric fever</b>	Dr.Shahzad Mirza
35	30/08/18	Revision- Mycobacteriology	Dr.Shahzad Mirza
36	01/09/18	Revision – Mycology-I	Dr. R A Patil
37	03/09/18	Revision – Mycology-II	Dr.Shahzad Mirza
38	04/09/18	Revision – Parasitology – (Protozoa)	Dr. R A Patil
39	06/09/18	Revision – Parasitology – (Cestodes & Trematodes)	Dr. N.S. Gupta
40	08/09/18	Revision – Parasitology – (Nematodes)	Dr. N.K. Das
41	10/09/18	Revision – Virology-I	Dr. N.S. Gupta
42	11/09/18	Revision – Virology –II	Dr. R A Patil
43	15/09/18	Revision – Clinical Microbiology-I	Dr. N.K. Das
44	17/09/18	Revision – Clinical Microbiology-II	Dr.Shahzad Mirza
45	18/09/18	Doubt Clearing class	Dr. N.K. Das
46		<b>Preliminary Exam</b>	-
47		<b>Diwali Vacation</b>	-
48		<b>University Exam</b>	-

## **PRACTICALS SCHEDULE**

<b>Sr. No</b>	<b>Date</b>	<b>Topic</b>
1	02/07/18-05/07/18	Trematodes
2	09/07/18-12/07/18	Cestodes
3	16/07/18-19/07/18	Intestinal Nematodes
4	23/07/18-26/07/18	Tissue Nematodes
5	30/07/18-02/08/18	Cryptosporidium, Toxoplasma, Pneumocystis
6	06/08/18-09/08/18	Entomology
7	13/08/18-16/08/18	Revision Practical (Media and Sterilization)
8	20/08/18-23/08/18	Revision Practical (Virology and Immunology)
9	27/08/18-30/08/18	Salmonella(Integrated Teaching)
10	03/09/18-06/09/18	Revision Practical (Mycology and Parasitology)
11	17/09/18-19/09/18	Revision Practical (Slides and Specimens)

## **Tutorials**

1	17/07/18	Tutorial-Mycology	Dr. N.K. Das
2	21/07/18	Tutorial-Enterobacteriaceae	Dr. Shahzad Mirza
3	11/08/18	Tutorial-Virology	Dr. N.K.Das
4	18/08/18	Tutorial- Parasitology	Dr R A Patil

**Format C:****Lesson plan schedule (Separately for Lectures and Tutorials)**

<b>Sr. No</b>	<b>Date</b>	<b>Topic</b>	<b>Lesson Plan</b>
1	02/07/18	Cestodes -I	<ul style="list-style-type: none"><li>• History</li><li>• Morphology, Cultural characteristics, biochemical reactions</li><li>• Antigenic structure &amp; classification</li><li>• Pathogenesis</li><li>• Lab diagnosis</li><li>• Prophylaxis &amp; Treatment</li></ul>
2	03/07/18	Cestodes -II	<ul style="list-style-type: none"><li>• History</li><li>• Morphology, Cultural characteristics, biochemical reactions</li><li>• Antigenic structure &amp; classification</li><li>• Pathogenesis</li><li>• Lab diagnosis</li><li>• Prophylaxis &amp; Treatment</li></ul>
3	05/07/18	Intestinal nematodes-I	<ul style="list-style-type: none"><li>• General characteristics</li><li>• Classification</li><li>• Life cycle</li><li>• Pathogenesis</li><li>• Lab diagnosis</li><li>• E. vermicularis &amp; Trichuris trichiura</li></ul>
4	07/07/18	Revision – Sterilization	-
5	09/07/18	(Integrated teaching) - Pneumonia	<ul style="list-style-type: none"><li>• History</li><li>• Morphology, Cultural characteristics, biochemical reactions</li><li>• Antigenic properties &amp; virulence factors</li><li>• Pathogenicity</li><li>• Lab diagnosis</li><li>• Treatment</li></ul>
6	10/07/18	(Integrated teaching) - Pneumonia	<ul style="list-style-type: none"><li>• History</li><li>• Morphology, Cultural characteristics, biochemical reactions</li></ul>

			<ul style="list-style-type: none"> <li>• Antigenic properties &amp; virulence factors</li> <li>• Pathogenicity</li> <li>• Lab diagnosis</li> <li>• Treatment</li> </ul>
7	12/07/18	Intestinal nematodes-II	<ul style="list-style-type: none"> <li>• General characteristics</li> <li>• Classification</li> <li>• Life cycle</li> <li>• Pathogenesis</li> <li>• Lab diagnosis</li> <li>• E. vermicularis &amp; Trichuris trichiura</li> </ul>
8	14/07/18	Tissue Nematodes –I	<ul style="list-style-type: none"> <li>• Gen characteristics</li> <li>• Classification</li> <li>• Life cycle</li> <li>• Pathogenesis</li> <li>• Lab diagnosis</li> <li>• W. bancrofti</li> <li>• B. malayi</li> <li>• Loa-Loa D. medinensis</li> </ul>
9	16/07/18	Tissue Nematodes –II	<ul style="list-style-type: none"> <li>• Gen characteristics</li> <li>• Classification</li> <li>• Life cycle</li> <li>• Pathogenesis</li> <li>• Lab diagnosis</li> <li>• W. bancrofti</li> <li>• B. malayi</li> <li>• Loa-Loa D. medinensis</li> </ul>
10	17/07/18	Tutorial-Mycology	-
11	19/07/18	Doubt clearing class	-
12	21/07/18	Tutorial-Enterobacteriaceae	-
13	23/07/18	PBL-Meningitis	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Acute pyogenic meningitis</li> </ul>
14	24/07/18	PBL-Meningitis	<ul style="list-style-type: none"> <li>• Clinical picture</li> <li>• Lab diagnosis</li> </ul>
15	26/07/18	PBL-Meningitis	<ul style="list-style-type: none"> <li>• Difference between acute &amp; chronic meningitis</li> <li>• Prophylaxis</li> </ul>
16	28/07/18	PBL-Meningitis	<ul style="list-style-type: none"> <li>• Tuberculous meningitis</li> <li>• Viral/Aseptic meningitis</li> </ul>
17	30/07/18	Lab diagnosis of PUO	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Classification</li> <li>• Etiology</li> <li>• Causes of PUO</li> <li>• Lab diagnosis</li> </ul>

18	31/07/18	Cryptosporidium and Toxoplasma	<ul style="list-style-type: none"> <li>• History</li> <li>• Morphology</li> <li>• Life cycle,</li> <li>• Clinical features</li> <li>• Diagnosis Prevention &amp; treatment</li> </ul>
19	02/08/18	Emerging & Re-emerging infection	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Factors contributing</li> <li>• Examples</li> <li>• Antimicrobial resistance</li> <li>• Controlling the threat</li> </ul>
20	04/08/18	Lab diagnosis of wound infection	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Causative organism</li> <li>• Clinical presentation</li> <li>• Lab diagnosis Prophylaxis</li> </ul>
21	06/08/18	Bio-terrorism	<ul style="list-style-type: none"> <li>• History</li> <li>• CDC bio-terrorism agents</li> <li>• Disease categories</li> <li>• Pathogens of greater concern</li> <li>• Responses to bio-terrorism</li> </ul>
22	07/08/18	Lab diagnosis GIT infection	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Classification</li> <li>• Etiology</li> <li>• Diarrhoea</li> <li>• gastroenteritis</li> <li>• Dysentery</li> <li>• Pathogenesis</li> <li>• Lab diagnosis, Prevention</li> </ul>
23	09/08/18	Microbiology of food, water and air	<ul style="list-style-type: none"> <li>• Bacteriology of water</li> <li>• Test for pathogenic bacteria</li> <li>• Bacteriology of air</li> <li>• Measurement of air contaminant</li> <li>• Bacteriology of milk</li> <li>• Milk born diseases</li> <li>• Bacteriology of food</li> <li>• Lab diagnosis of food born infections</li> </ul>
24	11/08/18	Tutorial-Virology	-
25	13/08/18	Lab diagnosis of STD	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Causative organism</li> <li>• Clinical presentation</li> <li>• Lab diagnosis Prophylaxis</li> </ul>
26	14/08/18	Revision –Media and Biochemical Reaction	-
27	16/08/18	Lab diagnosis of Hospital acquired	<ul style="list-style-type: none"> <li>• Definition</li> </ul>

		infections	<ul style="list-style-type: none"> <li>• Factor influencing infection</li> <li>• Microorganism</li> <li>• Common Hospital acquired infection</li> <li>• sources of infection</li> <li>• Modes of transmission</li> <li>• Diagnosis &amp; control</li> <li>• Infection control policy and HAICC</li> </ul>
28	18/08/18	Tutorial- Parasitology	-
29	20/08/18	Lab diagnosis of Food Poisoning	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Definition</li> <li>• Etiology</li> <li>• Course of diagnosis</li> <li>• Lab diagnosis</li> <li>• Prophylaxn</li> </ul>
30	21/08/18	Revision- General Microbiology	-
31	23/08/18	Revision- Immunology	-
32	25/08/18	Revision- Bacteriology	-
33	27/08/18	<b>Integrated teaching</b> – Enteric fever	<ul style="list-style-type: none"> <li>• Morphology, cultural characteristics</li> <li>• Biochemical reactions, antigen structure, classification</li> <li>• Pathogenicity</li> <li>• Lab diagnosis, prophylaxis, treatment</li> <li>• Salmonella gastroenteritis</li> </ul>
34	28/08/18	<b>Integrated teaching</b> – Enteric fever	-
35	30/08/18	Revision- Mycobacteriology	-
36	01/09/18	Revision – Mycology-I	-
37	03/09/18	Revision – Mycology-II	-
38	04/09/18	Revision – Parasitology – (Protozoa)	-
39	06/09/18	Revision – Parasitology – (Cestodes&Trematodes)	-
40	08/09/18	Revision – Parasitology – (Nematodes)	-
41	10/09/18	Revision – Virology-I	-
42	11/09/18	Revision – Virology –II	-
43	15/09/18	Revision – Clinical Microbiology-I	-
44	17/09/18	Revision – Clinical Microbiology-II	-
45	18/09/18	Doubt Clearing class	-
46		<b>Preliminary Exam</b>	-
47		<b>Diwali Vacation</b>	-
48		<b>University Exam</b>	-