SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

UG Department of Microbiology

Add on Course: Medical Microbiology and Immunology

Session 2023-24

Course Coordinator Report

A free Add-On Course for UG students in the Department Microbiology, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur was held from 01st August 2023 to 07th October 2023. The course title was "Medical Microbiology and Immunology". It is the complete beginner to Expert Course was perfect for anyone who wants to learn Medical Microbiology and Immunology.

The Medical Microbiology and Immunology course is designed to provide a comprehensive understanding of medical microbiology and immunology. It covers the identification and characterization of pathogens, the interactions between pathogens and hosts, and the mechanisms of the immune response. Emphasis is placed on diagnostic techniques and practical skills essential for disease management and research in clinical settings.

The course duration was 10 weeks (30 hours). Two theory classes were engaged on Friday & Saturday and one Practical was engaged in every week. The structure of marking system was 50 marks on theory paper and 40 marks on practical examination including 10 marks for internal. The question paper of theory examination was in MCQ type of 25 questions with four multiple choices. Practical examination was also taken on this course for 40 marks. Internal marks assessment was on the basis of regularity, attendance, assignment submission etc. All the 85 students were present in both theory and practical examination. The result was prepared and certificates were also distributed to the students.

Ms. Sanchari Sarkar Course- Coordinator

Add on Course

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

UG Department of Microbiology Add on Course: Medical Microbiology and Immunology Session 2023-24

To. The Principal SSES Amt's Science College. Congress Nagar, Nagpur-12

Subject: For permission to conduct the add on courses in Microbiology and Biotechnology department during the session 2023-2024

Respected Sir.

This is to request you that, the teachers of Microbiology and Biotechnology department have prepared the syllabus and modules of the 30 hours certificate courses for the session 2023-2024.

The details of the course module, syllabus and time table is submitted here with.

Hence please permit to run the add on courses and oblige me.

Thanking you

Yours sincerely

Department of Microbiology Science College, Congress Nagar, NACPUR.

Permitted Permitted

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

UG Department of Microbiology Add on Course: Medical Microbiology and Immunology Session 2023-24

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Permitted Permitted

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

UG Department of Microbiology

NOTICE

Date: 17/07/2023

All the students are informed that **U.G. Department of Microbiology** runs **Add on Course: Medical Microbiology and Immunology** for the session 2023-24. Interested students of B.Sc. are requested to register their names to the course Coordinator Ms. Sanchari Sarkar on or before 29/07/2023.

SEAL SEAL THE









U.G. DEPARTMENT OF MICROBIOLOGY, SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

Accredited with CGPA of 3.51 at 'A+' Grade by NAAC, Bangalore
A College with Potential for Excellence
An Institutional Member of APQN
Recognized Center for Higher Learning & Research
A Mentor College under Paramarsh Scheme of UGC, New Delhi
A Mentor College under Paris Sparsh Scheme of Maharashtra State

Add on Course for the Session 2022-23 Medical Microbiology and Immunology

Course Introduction

This course provides a comprehensive understanding of medical microbiology and immunology. It covers the identification and characterization of pathogens, the interactions between pathogens and hosts, and the mechanisms of the immune response. Emphasis is placed on diagnostic techniques and practical skills essential for disease management and research in clinical settings.

Course Objectives

- Identify key pathogens and understand their roles in infectious diseases.
- Analyze host-pathogen interactions and their impact on human health.
- Apply immunological principles to understand the immune response.
- Perform diagnostic techniques for microbial infections and immunological assays.

Registration Date: 29/07/2023

Prof. Atul Bobdey Coordinator Dept. of Microbiology Prof. Mahendra Dhore Principal Science College, Nagpur









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Registration Date: 29/07/2023

Prof. Atul Bobdey Coordinator Dept. of Microbiology Prof. Mahendra Dhore Principal Science College, Nagpur

UG Department of Microbiology

Add-On Certificate Course: Medical Microbiology and Immunology (Session 2023-24)

Course Co-ordinator: Ms. Sanchari Sarkar

Course Description:

Study of pathogens, host-pathogen interactions, and the immune response, including diagnostic techniques.

Skills Gained:

Microbial diagnostics, immunological assays, and disease management

Course Introduction

This course provides a comprehensive understanding of medical microbiology and immunology. It covers the identification and characterization of pathogens, the interactions between pathogens and hosts, and the mechanisms of the immune response. Emphasis is placed on diagnostic techniques and practical skills essential for disease management and research in clinical settings.

Course Outcomes

- Identify key pathogens and understand their roles in infectious diseases.
- Analyze host-pathogen interactions and their impact on human health.
- Apply immunological principles to understand the immune response.
- Perform diagnostic techniques for microbial infections and immunological assays.

Instructional Strategies: Theory class, Practical, Video clips, Models etc.

Evaluation Strategies: Oral discussions and Final MCQ examination

Course Objectives

- Understand the basic principles of medical microbiology and immunology.
- Learn about various pathogens, including bacteria, viruses, fungi, and parasites.
- Explore the mechanisms of the immune system and how it combats infections.
- Gain hands-on experience in microbial diagnostics and immunological testing.

Duration of course: Ten weeks (30 Hours)

UG Department of Microbiology

Add-On Certificate Course: Medical Microbiology and Immunology (Session 2023-24)

Module: The Structure of Syllabus and system of evaluation

		Total Marks			
Course	Theory Papers and Practical	paper- Medical Microbiology and ology vexamination will be of MCQ pattern 25 questions each with equal marks.	Internal	Practical	
Certificate Course in Medical Microbiology and Immunology	Theory paper- Medical Microbiology and Immunology * Theory examination will be of MCQ pattern having 25 questions each with equal marks.	50	10	40	
	* Practical examination will be based on performance evaluation in the laboratory and hands-on-training		100		

& Sarkar Ms. Sanchari Sarkar

Add on Course Coordinator

Dr. Amitabh Halder IQAC Coordinator

Internal Quality Assurance Cell

(IQAC)

~ Bure Prof. Mahendra Dhore

Principal

Principal

S. S. E. S. Amravati's

S. S. E. S. A. Science College Science College, Nagpur, Congress Nagar, Nagpur.



UG Department of Microbiology

Syllabus of Add-On Certificate Course: Medical Microbiology and Immunology (Session 2023-24)

Course Units

Unit 1: Introduction to Medical Microbiology

- · Topics:
- · Overview of microbiology and its branches.
- · Classification of microorganisms.
- Pathogenicity and virulence factors.
- · Overview of diagnostic microbiology.
- · Practical 1:
- Microscopy techniques for identifying microorganisms.

Unit 2: Bacterial Pathogens and Diseases

- · Topics:
- Major bacterial pathogens and their diseases.
- · Mechanisms of bacterial infection and pathogenicity.
- Antibacterial agents and resistance.
- · Diagnostic techniques for bacterial infections.
- · Practical 2:
- Culturing and identifying bacterial pathogens.

Unit 3: Viral, Fungal, and Parasitic Infections

- Topics:
- · Important viral, fungal, and parasitic pathogens.
- · Disease mechanisms and host interactions.
- · Antiviral, antifungal, and antiparasitic therapies.
- · Diagnostic methods for viral, fungal, and parasitic infections.
- Practical 3:
- PCR and serological tests for viral infections.

Unit 4: Immunology and Immune Response

- · Topics:
- Components and functions of the immune system.
- Innate and adaptive immunity.
- · Immunopathology and autoimmune diseases.
- Vaccination and immunotherapy.
- · Practical 4:
- Immunoassays (ELISA) for detecting antibodies.



UG Department of Microbiology Add-On Certificate Course: Medical Microbiology and Immunology (Session 2023-24) Week-wise teaching plan:

Week	Hrs.	Syllabus
Week 1	1	Overview of microbiology and its branches.
	1	Classification of microorganisms.
	1	Pathogenicity and virulence factors
Week 2	1	Overview of diagnostic microbiology
	2	Major bacterial pathogens and their diseases.
Week 3	2	Mechanisms of bacterial infection and pathogenicity.
	1	Antibacterial agents and resistance
Week 4	1	Diagnostic techniques for bacterial infections
	1	Important viral, fungal, and parasitic pathogens.
	1	Disease mechanisms and host interactions.
Week 5	1	Antiviral, antifungal, and antiparasitic therapies.
	2	Diagnostic methods for viral, fungal, and parasitic infections.
Week 6	1	Components and functions of the immune system
	2	Innate and adaptive immunity.
Week 7	2	Immunopathology
	2	autoimmune diseases
Week 8	2	Vaccination
	2	Immunotherapy
Week 9	1	Microscopy techniques for identifying microorganisms.

	1	Culturing and identifying bacterial pathogens
Week 10	1	PCR and serological tests for viral infections
	1	Immunoassays (ELISA) for detecting antibodies



UG Department of Microbiology Add-On Certificate Course: Medical Microbiology and Immunology (Session 2023-24)

Time Table

w.e.f. 01/08/2023

Day	Theory
Friday	Sanchari Sarkar (R. no C9) Theory 4.00 PM - 5.00 PM
Saturday	Sanchari Sarkar R. no C9) practical, 4.00 PM - 5.00 PM
	Sanchari Sarkar (R. no C9) Theory, 4.00 PM - 5.00 PM



SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

UG Department of Microbiology

EXAMINATION NOTICE

Date: 09/10/2023

All the students enrolled for **Add on Course: Medical Microbiology** and **Immunology** for the session 2023-24 are informed that Theory and Practical Exam of the course is scheduled on 13/10/2023. All the appearing students are informed to remain present in Microbiology Laboratory at 10:30 – 11:30AM AM for Theory Exam and at 12:30PM – 5:30PM for Practical Exam.



List of the Students: Add on Course- Medical Microbiology and Immunology (Session 2023-2024)

Sr. No.	Name of Student	Signature
1)	Ambulkar Isha Pradnyanand	Janhuh.
2)	Anmadwar Khushi Rajendra	Armedueal
3)	Bahadure Vanshita Dharmapal	Venshita
4)	Bhagwat Ketki Aviraj	Kethi
5)	Bhalkar Gauri Abhijit	a Budway
6)	Binekar Mansi Sevak	MBineter
7)	Bisen Riya Deliram	Rejsen.
8)	Borkar Mansvi Ravi	Myorker
9)	Borkar Nandini Ramkrushna	Fornandini)
10)	Borkar Shreyasha Dinesh	Breyashy
11)	Buddhalwar Siddhi Vyankatesh	SBINDALIN
12)	Budhe Vinay Rajendra	Vrudhe.
13)	Chauhan Shantanusingh Shailendrasingh	Showning
14)	Choudhari Shravani Ramesh	Theudhar
15)	Dahat Surbhi Yograj	Steelest
16)	Daheriya Jaysika Ramkishan	Taysike
17)	Dahikar Sarwani Atul	Suriky
18)	Das Chetana Shaktiprasad	Thema
19)	Datarkar Nayan Prakashrao	N. Astarka
20)	Dhote Shrishti Ravindra	Thefeshow
21)	Doye Pranali Shrikrushna	Shirling
22)	Fiske Vedanti Jagdish	Vedanti
23)	Fulzele Tannu Shailesh	Tamefulgele
24)	Garode Gargi Shailesh	Course
25)	Ghangare Priyanka Liladhar	ghangase

C. A. Marie

26)		Comme
	Gholse Leena Bhojraj	Steph
27)	Giri Yash Dilip	(Yasa
28)	Godse Siddhi Madhav	(Soulse
29)	Gotmare Parikshit Deepak	terotmane
30)	Gurnule Madhavi Dhanraj	Madhase
31)	Gurve Aditi Ramkrushna	Stiti. G
32)	Hadke Tejasvi Nitin	Hegaswi.
33)	Jain Shruti Ravikumar	Stans
34)	Jenekar Shreya Narendra	Spenetal.
35)	Kadu Kartik Vivek	Kadu.
36)	Kale Vaidehi Girish	Hole:
37)	Kamane Saurabh Jagdish	Skamare
38)	Kamble Shatakshi Vijay	Shatakaho
39)	Khadse Isha Eshwar	Marse
40)	Khaparde Sourabhi Rajendra	Skieperde
41)	Khedule Tashu Vipul	- Kheduli
42)	Khobragade Bhavesh Subhash	Therein
43)	Khorgade Shiwani Vasantrao	Ihmani_
44)	Kohad Purva Sanjay	Purkako
45)	Kolhe Yashaswi Pravin	Kfille.
46)	Kudkelwar Janhvi Ravi	Tkudselwa
47)	Lande Sonali Rajendra	Sorelit
48)	Lohakare Shravni Kawadu	Tohakeur.
49)	Madavi Maithili Prabhakar	(Marthiti-
50)	Mahant Abhilasha Chandrashekhar	-A Mahand
51)	Manwatkar Mahi Pramod	Manuatka
52)	Masram Prajwal Prakash	Frying.
53)	Masram Samrudhi Subhash	Sharaur
54)	Meshram Hemant Vikas	Hemant
55)	Meshram Shrivin Navin	Speekmin
56)	Nagbhidkar Astha Sanjay	-Artordshicko

57)	Nakhale Mansi Nagesh	Maphole
58)	Nandanwar Saniya Murlidhar	Nondwar
59)	Nikose Vaishnavi Vasanta	Mikase
60)	Ninawe Rakhi Sanjay	Dineuro
61)	Nipane Darshika Dindayal	- Varhibe
62)	Parmar Eshika Raju	Parmas.
63)	Pathe Mansi Hanuman	Mathe
64)	Patle Nital Pralhad	Ballie
65)	Patle Vaibhav Sahadeo	Wate.
66)	Patle Vinars Nayaran	\ lootle
67)	Pawar Radha Vinod	Ladher
68)	Purkam Sanskruti Kishor	Sanshurt
69)	Rahangdale Kajal Tulshidas	Kkahangolete
70)	Ramteke Rutuja Shailesh	Pantekes
71)	Rathod Aditi Sanjay	ARattod
72)	Raut Anushka Pramod	AD-A
73)	Raut Khushi Bhalchandra	Kaut
74)	Raut Netra Narendra	PALIL
75)	Saluja Manmeet Kaur Ranjeet Singh	M. Salui a
76)	Sepurwar Riya Rajendra	Kiye
77)	Singh Riya Virendra Kumar	Morros'
78)	Somkuwar Avantika Ghanshyam	Arant he
79)	Thakre Sakshi Sudhir	STRACTE
80)	Tumsare Ankita Suryabhan	Tumeau
81)	Verma Namita Khilawan	Namita
82)	Waghmare Aditya Anand	Adulya
83)	Waghmare Samit Kishor	Swaghnere
84)	Wasnik Pradnya Manoj	head
85)	Yakar Shrushti Rajesh	Sycher



S. Lankar Ms. Sanchari Sarkar

UG Department of Microbiology Add-On Certificate Course: Medical Microbiology and Immunology (Session 2023-24)

Theory Exam (M.C.Q. Pattern)

- Which of the following is a Gram-positive bacterium?
- A) Escherichia coli
- B) Staphylococcus aureus
- C) Salmonella typhi
- D) Neisseria gonorrhoeae
 - Answer: B
- 2. What is the primary function of T-helper cells?
- A) Produce antibodies
- B) Phagocytose pathogens
- C) Activate B cells and macrophages
- D) Suppress the immune response
 - Answer: C
- 3. Which pathogen is known for causing tuberculosis?
- A) Streptococcus pneumoniae
- B) Mycobacterium tuberculosis
- C) Clostridium botulinum
- · D) Bacillus anthracis
 - Answer: B
- 4. What is the main function of antibodies?
- A) Lyse bacterial cells
- B) Neutralize toxins
- C) Phagocytose pathogens
- D) Inhibit viral replication
- 5. Which of the following is an example of an opportunistic infection?
- A) HIV
- B) Influenza
- C) Candida albicans
- D) Measles
 - Answer: C
- 6. What is the role of macrophages in the immune system?
- A) Produce antibodies
- B) Present antigens to T cells
- C) Produce histamine
- D) Inhibit viral replication
 - Answer: B
- 7. Which viral family does the influenza virus belong to?
- A) Retroviridae
- B) Flaviviridae
- C) Orthomyxoviridae

- D) Coronaviridae
 - Answer: C
- 8. Which of the following is a fungal pathogen?
- · A) Escherichia coli
- · B) Plasmodium falciparum
- · C) Candida albicans
- D) Staphylococcus aureus
 - Answer: C
- 9. Which cell type is primarily responsible for the production of antibodies?
- · A) Macrophages
- . B) T-helper cells
- · C) B cells
- D) Natural killer cells
 - Answer: C
- 10. What does ELISA stand for?
- A) Enzyme-Linked Immunosorbent Assay
- B) Enzyme-Linked Inhibitory Assay
- C) Electrophoretic Immunosorbent Assay
- D) Electrophoretic Inhibitory Assay
 - Answer: A

11. Which of the following is a characteristic of innate immunity?

- A) Memory response
- B) Specificity for particular antigens
- · C) Immediate response
- D) Production of antibodies
 - Answer: C

12. Which bacterium is associated with peptic ulcers?

- · A) Escherichia coli
- B) Helicobacter pylori
- C) Streptococcus pyogenes
- D) Staphylococcus aureus
 - Answer: B

13. Which type of immunity involves the activation of B cells?

- A) Cell-mediated immunity
- · B) Innate immunity
- C) Humoral immunity
- D) Autoimmunity
 - Answer: C

14. What is the function of cytokines in the immune response?

- · A) Directly kill pathogens
- B) Serve as signaling molecules
- C) Phagocytose pathogens
- D) Produce antibodies
 - Answer: B

15. Which of the following pathogens causes malaria?

- A) Plasmodium spp.
- B) Trypanosoma spp.
- C) Leishmania spp.

- D) Hepatitis B Answer: B
- 24. Which assay is commonly used to measure the concentration of specific antibodies in a sample?
- A) PCR
- B) ELISA
- · C) Western blot
- D) Flow cytometry

Answer: B

- 25. Which type of immunity is provided by vaccination?
- · A) Passive immunity
- B) Innate immunity
- C) Active immunity
- D) Natural immunity

Answer: C

SEAL SEAL

Ms. Sanchari Sarkar Course- Coordinator Add on Course

S. Sarlean

UG Department of Microbiology Add-On Certificate Course: Medical Microbiology and Immunology (Session 2023-24)

Practical Exam Question Paper:

Subject

: Medical Microbiology and Immunology

Center

: S.S.E.S.A's Science College, Nagpur

Time

: 5 hrs per day

Dates

: 13/10/2023

Max. Marks: 40

	4.0
Q.1. Culturing and identifying bacterial pathogens	10
Q.2. Immunological assay for detecting antibodies	10
	10
Q.3. Viva-Voce	10
O.4. Practical Record	10

Total Marks 40



UG Department of Microbiology Add-On Certificate Course: Medical Microbiology and Immunology (Session 2023-24) OMR Answer Sheet



Shri Shivaji Education Society, Amravati's SCIENCE COLLEGE



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Mentur College under 'PARAMARSH Scheme', UGC, New Delhi

U.G. DEPARTMENT OF MICROBIOLOGY

Cours	e Exam Nar	Add-or ne: Medicul	Microbi	ology and Immuno	logy
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UG Department of Microbiology Mark List: Add on Course- Medical Microbiology and Immunology (Session 2023-2024)

Sr. No.	Name of Student	Marks obtained out of 50 (Theory)	Marks obtained out of 40 (Practical)	Marks obtained out of 10 (Internal)	Total Marks 100	Grade
1)	Ambulkar Isha Pradnyanand	50	38	10	98	0
2)	Anmadwar Khushi Rajendra	48	36	10	94	0
3)	Bahadure Vanshita Dharmapal	50	38	10	98	0
4)	Bhagwat Ketki Aviraj	48	36	10	94	0
5)	Bhalkar Gauri Abhijit	42	35	10	87	A+
6)	Binekar Mansi Sevak	42	34	10	86	A+
7)	Bisen Riya Deliram	48	36	10	94	0
8)	Borkar Mansvi Ravi	42	35	10	87	A+
9)	Borkar Nandini Ramkrushna	50	38	10	98	0
10)	Borkar Shreyasha Dinesh	50	34	10	94	0
11)	Buddhalwar Siddhi Vyankatesh	48	35	10	93	0
12)	Budhe Vinay Rajendra	42	34	10	86	A+
13)	Chauhan Shantanusingh Shailendrasingh	48	36	10	94	0

-	Choudhari Shravani Ramesh	50	34	10	94	0
15)	Dahat Surbhi Yograj	48	35	10	93	0
16)	Daheriya Jaysika Ramkishan	42	34	10	86	A+
17)	Dahikar Sarwani Atul	48	36	10	94	0
18)	Das Chetana Shaktiprasad	42	35	10	87	A+
19)	Datarkar Nayan Prakashrao	50	38	10	98	0
20)	Dhote Shrishti Ravindra	50	34	10	94	0
21)	Doye Pranali Shrikrushna	42	34	10	86	A+
22)	Fiske Vedanti Jagdish	50	38	10	98	0
23)	Fulzele Tannu Shailesh	48	36	10	94	0
24)	Garode Gargi Shailesh	50	38	10	98	0
25) Ghangare Priyanka Liladhar	48	36	10	94	0
26	Gholse Leena Bhojraj	42	35	10	87	A+
27	Giri Yash Dilip	41	35	10	86	A+
28	Godse Siddhi Madhav	50	38	10	98	0
29	Gotmare Parikshit Deepal	50	34	10	94	0
3	0) Gurnule Madhavi Dhanraj	42	35	10	87	A+

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36)	Kale Vaidehi Girish	50	38	10	98	0
37)	Kamane Saurabh Jagdish	48	36	10	94	0
38)	Kamble Shatakshi Vijay	42	35	10	87	A+
39)	Khadse Isha Eshwar	50	34	10	94	0
40)	Khaparde Sourabhi Rajendra	48	35	10	93	0
41)	Khedule Tashu Vipul	42	34	10	86	A+
42)	Khobragade Bhavesh Subhash	48	36	10	94	0
43)	Khorgade Shiwani Vasantrao	42	34	10	86	A+
44)	Kohad Purva Sanjay	42	35	10	87	A+
45)	Kolhe Yashaswi Pravin	50	38	10	98	0
46)	Kudkelwar Janhvi Ravi	50	34	10	94	0
47)	Lande Sonali Rajendra	50	38	10	98	0

48)	Lohakare Shravni Kawadu	48	36	10	94	0
19)	Madavi Maithili Prabhakar	50	38	10	98	0
50)	Mahant Abhilasha Chandrashekhar	48	36	10	94	0
51)	Manwatkar Mahi Pramod	42	35	10	87	A+
52)	Masram Prajwal Prakash	50	34	10	94	0
53)	Masram Samrudhi Subhash	48	35	10	93	0
54)	Meshram Hemant Vikas	42	34	10	86	A+
55)	Meshram Shrivin Navin	48	36	10	94	0
56)	Nagbhidkar Astha Sanjay	50	37	10	97	0
57)	Nakhale Mansi Nagesh	48	38	10	96	0
58)	Nandanwar Saniya Murlidhar	50	38	10	98	0
59)	Nikose Vaishnavi Vasanta	48	36	10	94	0
60)	Ninawe Rakhi Sanjay	50	38	10	98	0
61)	Nipane Darshika Dindayal	48	36	10	94	0
62)	Parmar Eshika Raju	42	35	10	87	A+
63)	Pathe Mansi Hanuman	42	35	10	87	A+
64]	Patle Nital Pralhad	50	38	10	98	0

55)	Patle Vaibhav Sahadeo	50	34	10	94	0
66)	Patle Vinars Nayaran	42	34	10	86	A+
67)	Pawar Radha Vinod	49	38	10	97	0
68)	Purkam Sanskruti Kishor	50	35	10	95	0
69)	Rahangdale Kajal Tulshidas	50	38	10	98	0
70)	Ramteke Rutuja Shailesh	48	36	10	94	0
71)	Rathod Aditi Sanjay	50	38	10	98	0
72)	Raut Anushka Pramod	48	36	10	94	0
73)	Raut Khushi Bhalchandra	42	35	10	87	A+
74) Raut Netra Narendra	50	34	10	94	0
75) Saluja Manmeet Kaur Ranjeet Singh	48	35	10	93	0
76		42	34	10	86	A+
77	7) Singh Riya Virendra Kumar	48	36	10	94	0
7	8) Somkuwar Avantika Ghanshyam	42	34	10	86	A+
7	9) Thakre Sakshi Sudhir	42	34	10	86	A+
8	30) Tumsare Ankita Suryabhan	47	38	10	95	0
8	31) Verma Namita Khilawa	n 50	38	10	98	0

65)	Patle Vaibhav Sahadeo	50	34	10	94	0
66)	Patle Vinars Nayaran	42	34	10	86	A+
67)	Pawar Radha Vinod	49	38	10	97	0
68)	Purkam Sanskruti Kishor	50	35	10	95	0
69)	Rahangdale Kajal Tulshidas	50	38	10	98	0
70)	Ramteke Rutuja Shailesh	48	36	10	94	0
71)	Rathod Aditi Sanjay	50	38	10	98	0
72)	Raut Anushka Pramod	48	36	10	94	0
73)	Raut Khushi Bhalchandra	42	35	10	87	A+
74)	Raut Netra Narendra	50	34	10	94	0
75)	Saluja Manmeet Kaur Ranjeet Singh	48	35	10	93	0
76)	Sepurwar Riya Rajendra	42	34	10	86	A+
77)	Singh Riya Virendra Kumar	48	36	10	94	0
78)	Somkuwar Avantika Ghanshyam	42	34	10	86	A+
79)	Thakre Sakshi Sudhir	42	34	10	86	A+
80)	Tumsare Ankita Suryabhan	47	38	10	95	0
81)	Verma Namita Khilawan	50	38	10	98	0

82)	Waghmare Aditya Anand	48	36	10	94	0
83)	Waghmare Samit Kishor	50	38	10	98	0
84)	Wasnik Pradnya Manoj	48	36	10	94	0
85)	Yakar Shrushti Rajesh	42	35	10	87	A+





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SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR

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CERTIFICATE

Mr./Ku. Ambul Kar Isho Brady Jangad is awarded with certificate on successful completion of the course entitled, Certificate course in "Medical Microbiology and Immunology"

Session 2023-24 under Add-on course conducted for 30 hours from 01/08/2023 to 07/10/2023 by Department of Microbiology, SSESA's, Science College, congress Nagar, Nagpur 440012.

He/She has passed the Examination with '0' Grade.

of Lanker

Ms. Sanchari Sarkar

Coordinator, Department of Microbiology



Prof. M. P. Dhore

Principal, Science College, Nagpur